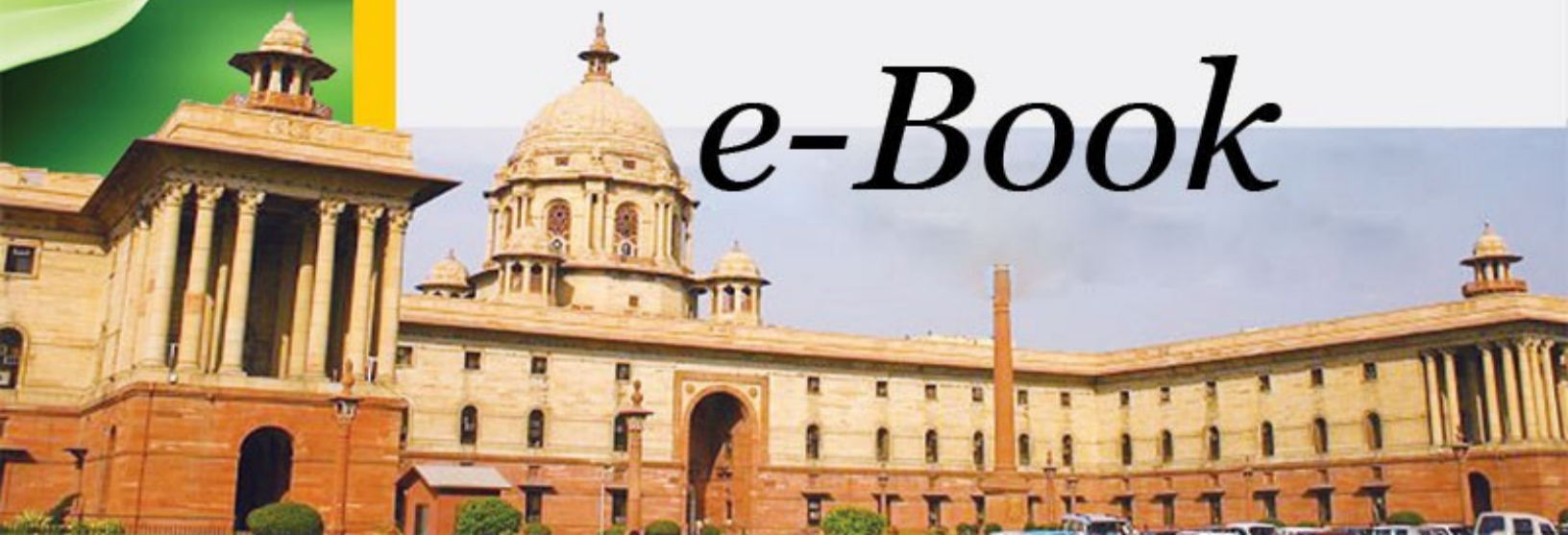


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# SSC CGL

(TIER 1) EXAM 2016

## GENERAL INTELLIGENCE

**Directions (1-3):** Find the odd words/letters/number from the given alternatives.

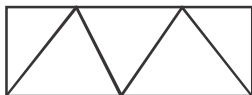
1. (a) AEFJ (b) KOPT  
(c) UYZD (d) EHIL
2. (a) 81 : 243 (b) 15 : 64  
(c) 64 : 192 (d) 25 : 75

3. (a) Distinguish (b) Scatter  
(c) Differentiate (d) Classification

4. Arrange the following words as per the English dictionary and find the last word.

Leaf, Learn, Leave, Less

- (a) Lean (b) Leave  
(c) Less (d) Leaf
5. How many triangles are there in the given figure?



- (a) 6 (b) 7  
(c) 8 (d) 9
6. In the certain code language, APPROACH is coded as CHOAPRAP. How will RESTRICT be coded?

- (a) CTRISTER  
(b) ERTSIRTC  
(c) CTRISTRE (d) TCIRSTRE

**Directions (7-9):** Select the related word/letter/number from the given alternative series.

7. Apes : Gibber :: Camels : ?  
(a) Grunt (b) Cheep  
(c) Bleat (d) Whine
8. TSR : FED :: WVU : ?  
(a) CAB (b) MLK  
(c) PQS (d) GFH
9. 7 : 32 : 28 : ?  
(a) 126 (b) 136  
(c) 116 (d) 128

10. John, in the morning, started walking towards North and then turn towards opposite side of the Sun. He then turn left again the stops. Which direction is he facing now?

- (a) North (b) West  
(c) South (d) East

11. If  $64 + 7 = 460$ , and  $25 + 8 = 212$  then,  $43 + 8 = ?$



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- (a) 360 (b) 376  
(c) 332 (d) 356
12. In a village, there are landlords of which some are literate. Which of the following best expresses the relationship between them?



(d) None of these

13. Which one of the given figure completes the given figure?

Question Figure

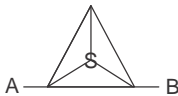


Answer Figures



14. What is the number image of the following figure?

Question Figure



Answer Figures



15. If the given words are arranged in descending order, then which of the following be last?

Sapling, Tree, Plant, Seed

- (a) Sapling (b) Plant  
(c) Seed (d) Tree

16. Which one is wrong number in the given series?

7, 56, 447, 3584, 28672

17. In this question, a statement is followed by assumption I and II. you have to consider the statements to be true even if they seem to be at variance from the commonly known facts. You have to decide, which of the following assumptions logically follows from the given statements.

**Statement:** Only good singers are invited in the conference. No one without sweet voice is a good singer.

**Assumption**

I. All invited singers in the conference have sweet voice.

II. Those singers who do not have sweet voice are not invited in the conference.

- (a) Only I follows  
(b) Neither I nor II follows  
(c) Both I and II follow  
(d) Only II follows

18. If '+' mean '×', '-' means '÷', '×' means '-' and '÷' means '+', then find the value of the following equation.

$$6 + 64 - 8 \div 45 \times 8$$

- (a) 85 (b) 76  
(c) 87 (d) 75

19. Which of the following has the given figure embedded in it?



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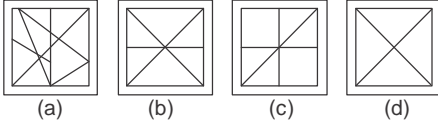
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Question Figure



Answer Figures



**Directions (20-21):** Find the missing number from the given alternatives.

20. 1, 4, 2, 3, 2, ?

- (a) 2 (b) 5  
(c) 3 (d) 4

21.  $\begin{array}{c} 6 \\ \diagup \quad \diagdown \\ 25 \quad 17 \end{array}$   $\begin{array}{c} 8 \\ \diagup \quad \diagdown \\ 38 \quad 18 \end{array}$   $\begin{array}{c} ? \\ \diagup \quad \diagdown \\ 89 \quad 16 \end{array}$

- (a) 13 (b) 15  
(c) 17 (d) 19

**Directions (23-23):** Find the missing number/letter from the given alternatives.

22. AEN, MQZ, CGP, ?

- (a) OBS (b) PUE  
(c) MPX (d) OTC

23. 0, 4, 18, 48, ?, 180

- (a) 69 (b) 68  
(c) 84 (d) 100

24. Select the word, which cannot be formed using the letters of the given word?

SEGREGATION

- (a) EAGER (b) SEA  
(c) GATE (d) NATION

25. A word is represented by only one set of number as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets by two matrices given below. The columns and row of Matrix I are numbered from 0 to 4 and that of Matrix are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column. Ex: 'U' can be represented by 03, 14, 32 etc; and 'O' can be represented by 56, 67, 75 etc. Similarly you have to identify the set of the word given in the question.

PURE

Matrix-I

	0	1	2	3	4
0	E	S	R	U	P
1	R	N	S	E	U
2	U	E	N	R	S
3	S	R	U	N	P
4	N	U	E	S	R

Matrix-II

	5	6	7	8	9
5	W	O	P	T	I
6	T	I	O	W	P
7	O	U	I	P	E
8	I	P	T	O	W
9	P	T	R	E	U

## ARITHMETIC

26. A number when divided by 6 leaves remainder 3. When the square of the same number is divided by 8, the remainder is

- (a) 0 (b) 2  
(c) 1 (d) 3

27. Find the wrong number in the given series.

3, 7, 16, 35, 70, 153

- (a) 70 (b) 16  
(c) 153 (d) 35



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28. The average of runs scored by a player in 11 innings is 63 and the average of his first six innings is 60 and the average of last six innings is 65. Find the runs scored in sixth inning.
- (a) 60                      (b) 54  
(c) 67                      (d) 57
29. In a parade of school students, the number of boys and girls are in the ratio of 9 : 7 respectively and the total number of boys and girls are 256. Find the number of girls.
- (a) 102                      (b) 112  
(c) 118                      (d) 128
30. Two persons ride towards each other from two places 55 km apart, one riding at 12 km/h and the other at 10 km/h. When will they be 11 km apart?
- (a) 2 h and 30 min  
(b) 1 h and 30 min  
(c) 2 h                      (d) 2 h and 45 min
31. A train 150 m long passes a telegraphic post in 12 seconds. Find the speed of the train.
- (a) 50 km/h                (b) 12.5 km/h  
(c) 25 km/h                (d) 45 km/h
32. At an election, a candidate secures 40% of the votes, but is defeated by the other candidate by a majority of 298 votes. Find the total number of votes recorded.
- (a) 1580                      (b) 1490  
(c) 1470                      (d) 1530
33. If  $x - \frac{1}{x} = 2$ , then what is the value of  $x^2 + \frac{1}{x^2}$ ?
- (a) 4                          (b) 5  
(c) 3                          (d) 6
34. The ratio between the height of tower and the point at some distance is  $5\sqrt{3} : 5$ . What will be the angle of elevation?
- (a)  $30^\circ$                       (b)  $60^\circ$   
(c)  $90^\circ$                       (d)  $45^\circ$
35. Successive discount of 20% and 10% is given on an item of Rs. 700, find the selling price.
- (a) 504                      (b) 196  
(c) 582                      (d) 601
36. The population of a State is 20000. It increases by 20% during the first year and 30% during the second year. The population after two years will be
- (a) 32000  
(b) 40000  
(c) 31200  
(d) 30000
37. A reduction of 20% in the price of rice enable a buyer to buy 5 kg more for Rs. 1200. The reduced price per kg of rice will be:
- (a) 36                          (b) 45  
(c) 48                          (d) 60
38. A man spends 60% of his income on different expenditures. His income is increased by 20% and his expenditure also increased by 10%. Find the percentage decrease in his saving?
- (a) 10%                      (b) 15%  
(c) 20%                      (d) 25%
39. The length of side AB and side BC of a scalene triangle ABC are 12 cm and 8 cm respectively. The size of angle C is  $59^\circ$ . Find the length of side AC.
- (a) 12                          (b) 10  
(c) 14                          (d) 16



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40. Find the value of

$$\left(\frac{\sin 27^\circ}{\cos 63^\circ}\right)^2 + \left(\frac{\cos 63^\circ}{\sin 27^\circ}\right)^2$$

- (a) 0                      (b) 2  
(c) 3                      (d) 1

41. The sum of the age of mother and a mother and her daughter is 60 years. 12 years ago the mother was eight times as old as her daughter. How old is the daughter at present?

- (a) 20 yr                  (b) 28 yr  
(c) 16 yr                  (d) 12 yr

42. In one hour, a boat goes 12 km along the stream and 8 km against the stream. The speed of the boat in still water is

- (a) 12 km/h              (b) 11 km/h  
(c) 10 km/h              (d) 8 km/h

43. A shopkeeper buys 80 articles for Rs. 2400 and sells them for a profit of 16%. Find the selling price of one article.

- (a) 36.40                  (b) 34.80  
(c) 35.60                  (d) 33.80

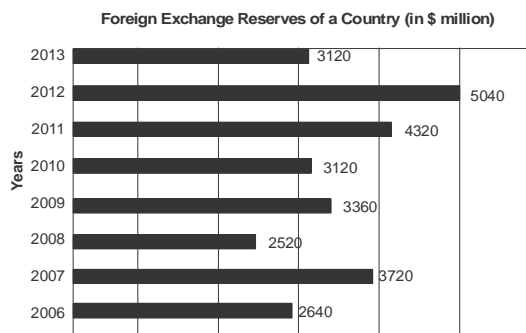
44. Find the amount which Syham will get on Rs. 4096, if he gave 18 months at  $12\frac{1}{2}\%$  per annum, interest being compounded half yearly.

- (a) 5813                    (b) 4515  
(c) 4913                    (d) 5713

45. A work twice as fast as B. If B can complete a piece of work independently in 12 days, then what will be the number of days taken by A and B together to finish the work?

- (a) 4                        (b) 6  
(c) 8                        (d) 18

**Directions (46-48):** Study the graph carefully to answer these questions.



46. The foreign exchange reserve in 2012 was how many times that in 2009?

- (a) 0.7    (b) 1.2    (c) 1.4    (d) 1.5

47. What was the percentage increase in the foreign reserve in 2012 over 2008?

- (a) 100%                  (b) 150%  
(c) 200%                  (d) 620%

48. The ratio of the number of years, in which the foreign exchange reserve are above the average reserves, to those in which reserves are below the average reserves is

- (a) 2 : 6                    (b) 3 : 4  
(c) 3 : 5                    (d) 1 : 1

49. A well of diameter 3 m is dug 14 m deep. The Earth taken out of it has been spread evenly all around it in the shape of a circular ring of width 4 m to form an embankment. Find the height of the embankment.

- (a) 4.25 m                  (b) 2.250 m  
(c) 1.125 m                  (d) 1.750 m

50. If  $x^3 + 1/x^3 = 110$ , then find the value of  $x + 1/x$ .

- (a) 2    (b) 3    (c) 4    (d) 5



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**Directions (51-52):** Choose the word, which is most similar in meaning to the given words.

51. Dishevelled

- (a) Tidy (b) Clean  
(c) Neat (d) Untidy

52. Venerate

- (a) Despise (b) Disobey  
(c) Disregard (d) Revere

53. Congenial

- (a) Accord (b) Snug  
(c) Engaging (d) Unpleasant

54. Adjure

- (a) Renounce (b) relinquish  
(c) Abnegate (d) Acquire

**Directions (55-57):** In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

55. Highly skilled

- (a) Consummate  
(b) Inveterate  
(c) Notorious  
(d) Maladroit

56. Identification with the feelings of another

- (a) Sympathy  
(b) Empathy  
(c) Apathy (d) Compassion

57. Insatiable desire for wealth

- (a) Selfish  
(b) Avarice  
(c) Egoist  
(d) Generosity

**Directions (58-60):** In these questions, four alternatives are given for the idiom/phrase given in **bold**. Choose the alternative which best expresses the meaning of the idiom/phrase.

58. **Cut the mustard**

- (a) To get under expectations  
(b) To score average  
(c) To perform well  
(d) To underperform

59. **A chip off the old block**

- (a) Reminds them of one's father  
(b) To remind one's sin  
(c) Reminds of one's son  
(d) Reminds of previous memories

60. **To fish in troubled waters**

- (a) To indulge in evil conspiracies  
(b) To make a profit out of disturbance  
(c) To aggravate the situation  
(d) To make the most of bad bargain

**Directions (61-62):** In these questions, a part of sentence is underlined. Below the given alternatives to the underlined part, which may improve the sentence. Choose the correct alternative. In case to improvement is needed, mark 'No improvement' as your answer.

61. What you have been doing since the workshop last month?

- (a) have you done  
(b) you have done  
(c) have you been doing  
(d) No improvement

62. Corruption is the most serious problem in India.



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- (a) the more serious
- (b) very serious
- (c) serious
- (d) No improvement

**Directions (63-66):** Each of the following sentences has a blank space and four words given after the sentence. Select whichever word you consider most appropriate for the blank space.

63. Sid and Harsh are ..... unable to complete the task.
- (a) neither
  - (b) either
  - (c) each
  - (d) both
64. The examination could guess ..... the answer correctly
- (a) at
  - (b) about
  - (c) through
  - (d) to
65. Be ..... and always look to the comfort of others.
- (a) considerate
  - (b) cautious
  - (c) considerable
  - (d) consider
66. As usual, a lot of people were..... in the king's darbar.
- (a) their
  - (b) possess
  - (c) past
  - (d) present

67. In this question, four words are given out of which one is incorrectly spelt. Find the incorrectly spelt word.

- (a) Ommineous
- (b) Omineous
- (c) Ominous
- (d) Omenous

**Directions (68-71):** In the following questions, a sentence has been given in parts, out of which a part contains an error. The path with the error is your answer. In case there is no error, then your answer is 'No error'.

68. He ought not/have done such/a filthy thing.
- (a) He ought not
  - (b) have done such
  - (c) filthy thing
  - (d) No error
69. The reason for/his failure is because/he did not work hard.
- (a) The reason for
  - (b) his failure is because
  - (c) he didnot work hard
  - (d) No error
70. I have reached/the office before/the rain started.
- (a) I have reached
  - (b) the office before
  - (c) the rain started
  - (d) No error
71. A large/consignment of books/are expected.
- (a) A large
  - (b) consignment of books
  - (c) are expected
  - (d) No error



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**Directions (72-75):** Read the following passage carefully and answer the question given below in the context of the passage.

Every profession or trade, every art and every science has its technical vocabulary, the function of which is partly to designate things or processes which have no names in ordinary English and partly to secure greater exactness in nomenclature. Such special dialects or jargons re-necessary in technical discussion of any kind. Being universally understood by the devotees of the particular science or art, they have the precision of a mathematical formula. Besides, they save time, for it is much more economical to name a process than to describe it. Thousands of these technical terms are very properly included in every large dictionary, yet, as a whole, they are rather on the outskirts of the English language than actually within its borders.

Different occupations, however, differ widely in the character of heir special vocabularies. In trades and handicrafts and other vacations like farming and fishing that have occupied great numbers of men from remote times; the technical vocabulary is very old. An average man now uses these in his own vocabulary. The special dialects of law, medicine divinity and philosophy have become familiar to cultivated persons.

72. Speical words used in technial discussion
- many become part of common speech
  - never last long
  - should resembel mathematical formula
  - should be confined to scientific fields

73. The writer of this article is
- scientist
  - political
  - linguist
  - a businessman

74. This passage is primarily concerned with
- various occupations and professions
  - technical terminology
  - scientific undertakings
  - a new language

75. It is true that
- various occupations and professions often interchange words.
  - there is always a non-technical word that may be substituted for the technical word.
  - the average man often used in his own vocabulary what was once technical language not menat for him.
  - everyone is interested in scientific findings.

## GENERAL AWARENESS

76. Which of the following is known as the Manchester of South India?

- Kochi
- Vishakapatnam
- Coimbatore
- Bengaluru

77. Who was the flag bearer of India at Rio Olympics 2016?

- PV Sindhu
- Jwala Gutta
- Yogeshwar Dutt
- Abhinav Bindra



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78. Which of the following is the first cricketer to score 1000 runs in an innings?
- (a) Sachin Tendulkar  
(b) Vinod Kamble  
(c) Pranav Dhanawade  
(d) Virat Kohli
79. Which of the following is the largest irrigation plant in India?
- (a) Buckingham Canal  
(b) Indira Gandhi Canal  
(c) Upper Ganges Canal  
(d) Tajewala Canal
80. The soil of Korela is rich in which of the following soils?
- (a) Alluvial soil  
(b) Laterite soil  
(c) Sandy soil  
(d) Loamy soil
81. Which of the process is known as nitrification?
- (a) Reactions of nitrogen monoxide with oxygen to form nitric acid  
(b) Reaction of nitrogen dioxide with water to form nitric acid  
(c) Conversion of ammonia to nitrites  
(d) Conversion of nitrite to nitric oxide
82. Asbestos is found maximum in which of the following countries?
- (a) Australia  
(b) Canada  
(c) Africa  
(d) Russia
83. Which country announces the imposition of a three-month State emergency after failed coup?
- (a) Turkey  
(b) Syria  
(c) Sudan  
(d) Iran
84. Beighton Cup is related to which of the following sports?
- (a) Football  
(b) Hockey  
(c) Badminton  
(d) Cricket
85. Sun temple is situated in which of the following States?
- (a) Odisha  
(b) Gujarat  
(c) Karnataka  
(d) Tamil Nadu
86. The growth of bacteria is measured by
- (a) spectrophotometer  
(b) calorimeter  
(c) auxanometer  
(d) turbidimeter
87. The sideways erosion, which widens the river valley, called
- (a) lateral corrosion  
(b) vertical corrosion  
(c) side corrosion  
(d) mean corrosion
88. The Constitution
- (a) is silent on the President's re-election to the office



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- (b) allows re-election of a person to the President's post
- (c) restricts a person to remain President for only two terms
- (d) has been amended to allow a person only one term as President
89. Smooth muscles are likely to be found in
- (a) muscles of legs
- (b) muscles of arms
- (c) stomach (d) heart
90. Synagogue is the place of worship of
- (a) Zoroastrianism (b) Taoism
- (c) Judaism (d) Shintoism
91. The civilian airport of highest altitude is in
- (a) Tibet
- (b) Nepal
- (c) India
- (d) China
92. The branch of biology, which deals with extinct organisms, is called
- (a) Palynology
- (b) Phylogeny
- (c) Paleobotany
- (d) Palaeontology
93. The least distance of distinct vision is
- (a) 35 cm (b) 25 cm
- (c) 45 cm (d) 15 cm
94. When will demand become a grant?
- (a) When demand is proposed.
- (b) After the discussion on demand is over.
- (c) After the demand is granted.
- (d) When the budget session is closed.
95. Summer rains in Australia broadly decrease from
- (a) East to West
- (b) West to East
- (c) North to South
- (d) South to North
96. The blue revolution is with
- (a) fish production
- (b) foodgrain production
- (c) oilseed production
- (d) milk production
97. Which is post-harvest folk dance in Assam?
- (a) Ankita Nat
- (b) Bihu
- (c) Raut Nacha
- (d) Namgen
98. The substrate of photorespiration is
- (a) Fructose
- (b) Pyruvic acid
- (c) Glycolate
- (d) Glucose
99. The UNIX operating system is suitable for
- (a) multi user
- (b) real-time processing
- (c) distributed processing
- (d) single user
100. Sink hole is a phenomenon of
- (a) plain
- (b) desert
- (c) tundra
- (d) karst



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## ANSWERS

- |         |         |         |         |         |         |         |         |         |          |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1. (d)  | 2. (b)  | 3. (a)  | 4. (c)  | 5. (*)  | 6. (c)  | 7. (a)  | 8. (b)  | 9. (c)  | 10. (c)  |
| 11. (d) | 12. (c) | 13. (d) | 14. (a) | 15. (c) | 16. (b) | 17. (c) | 18. (a) | 19. (b) | 20. (d)  |
| 21. (b) | 22. (a) | 23. (d) | 24. (d) | 25. (b) | 26. (d) | 27. (a) | 28. (d) | 29. (b) | 30. (c)  |
| 31. (d) | 32. (b) | 33. (d) | 34. (b) | 35. (a) | 36. (c) | 37. (c) | 38. (a) | 39. (b) | 40. (b)  |
| 41. (c) | 42. (c) | 43. (b) | 44. (c) | 45. (a) | 46. (d) | 47. (a) | 48. (c) | 49. (d) | 50. (d)  |
| 51. (d) | 52. (d) | 53. (d) | 54. (d) | 55. (a) | 56. (b) | 57. (b) | 58. (c) | 59. (a) | 60. (b)  |
| 61. (c) | 62. (d) | 63. (d) | 64. (a) | 65. (a) | 66. (d) | 67. (c) | 68. (a) | 69. (b) | 70. (a)  |
| 71. (c) | 72. (a) | 73. (c) | 74. (b) | 75. (c) | 76. (c) | 77. (d) | 78. (c) | 79. (b) | 80. (b)  |
| 81. (c) | 82. (d) | 83. (a) | 84. (b) | 85. (a) | 86. (b) | 87. (a) | 88. (b) | 89. (c) | 90. (c)  |
| 91. (a) | 92. (d) | 93. (b) | 94. (c) | 95. (c) | 96. (a) | 97. (b) | 98. (c) | 99. (a) | 100. (d) |



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# SSC COMBINED GRADUATE LEVEL (CGL) TIER-I EXAM

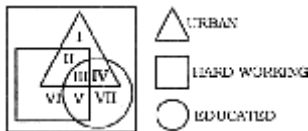
Held On: 09-08-2015 (Second Sitting)

## REASONING

1. Which single letter can be prefixed to the following words in order to obtain entirely new words? (Same letter has to be prefixed in all the five words of each.)  
EAT OUR IS AS AT

- (1) H (2) S  
(3) C (4) B

2. Which one of the areas marked I - VII represents the urban educated who are not hardworking?



- (a) 1 (2) 13  
(3) IV (4) II

**Directions (3 to 4):** In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

3. 1, 2, 2, 4, 3, 8, 7, 10, ?  
(1) 11 (2) 13  
(3) 9 (4) 8
4. 0, 7, 26, 63, ?  
(1) 123 (2) 87  
(3) 96 (4) 124

5. **Directions:** If you start running from a point towards North and after covering 4 kms you turn to your left and run 5 kms and then again turn to your left and run 5

kms. and then turn to left again and run another 6 kms and before finishing you take another left turn and run 1 km., then answer the following question based on this information.

**Question:** From the finishing point if you have to reach the point from where you started, in which direction will you have to run ?

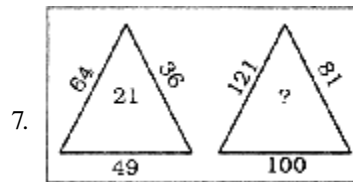
- (1) West (2) East  
(3) South (4) North

**Directions (6-10):** In the following questions, select the missing number from the given responses.

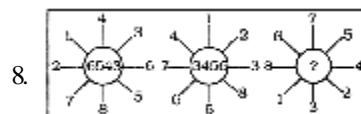
6.  $\frac{18}{3} = \frac{21}{9} = \frac{24}{3}$

$\frac{6}{21} = \frac{4}{26} = \frac{8}{?}$

- (a) 24 (b) 27  
(c) 29 (d) 22



- (a) 10 (b) 20  
(c) 30 (d) 40



- (a) 6543 (b) 5634  
(c) 5364 (d) 3564
9. I. 25 15 40 8  
II. 65 25 90 [?]  
III. 45 15 60 12  
(a) 18 (b) 12  
(c) 24 (d) 6
10.  $\frac{2}{3} = \frac{4}{9} = \frac{2}{3}$   
 $\frac{4}{16} = \frac{4}{16}$   
 $\frac{8}{64} = \frac{8}{64}$   
(a) 16 (b) 8  
(c) 24 (d) 9

**Directions (11-15):** In the following questions, select the related word/letters/number from the given alternatives.

11.  $\sqrt{AFI} = M : \sqrt{ADD} =$

L ::  $\sqrt{ABA}$

- (a) I (b) N  
(c) O (d) K
12. 12.16:22::36:?  
(1) 44 (2) 24  
(3) 26 (4) 46
13. PALAEOLOGY: FOSSIL :: PHRENOLOGY: ?  
(1) SKULL  
(2) THYROID  
(3) PANCREAS  
(4) LUNGS
14. 9:50::?  
(1) 22:110  
(2) 18:190  
(3) 15:225 (4) 20:105



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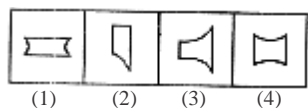
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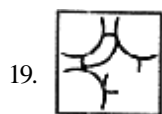
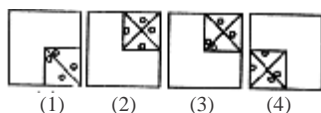
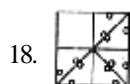
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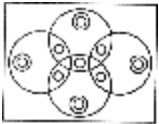
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15. MIKE: OGMC :: CIAD : ?  
 (1) EGCB (2) EICB  
 (3) AJCF (4) ENCF
16. In a certain code language FARMER is written as MAFMRE, in that code language which word will be written as GIVALEL?  
 (a) AIGALE  
 (2) VAGIELL  
 (3) VELAIGL  
 (4) VIALEGL
17. From the given answer figures, select the one which is hidden/embedded in the question figure.



**Directions (18-19):** In the following questions, which answer figure will complete the pattern in the question figure ?



20. How many circles are there in this figure?  
  
 (a) 16 (b) 13  
 (c) 17 (d) 22

21. From the given alternative words, select the word which can not be formed using the letters of the given word:  
 ENVIRONMENT  
 (1) MOVEMENT  
 (2) ENTER  
 (3) EMINENT  
 (4) ENTRANOE


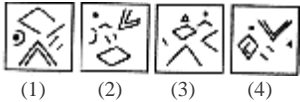
**Directions (22-23):** In the following questions, two statements are given followed by two conclusions/assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statement. Indicate your answer.

22. Statements:  
 I. Some men are good.  
 II. Some men are wise.  
 Conclusions:  
 I. Some wise men are good.  
 II. Some good men are wise.  
 (1) Only II follows  
 (2) Only I follows  
 (3) Neither I nor II follows  
 (4) Both I and II follow

23. Statements:  
 I. All poets are day dreamers.  
 II. All painters are day dreamers.  
 Conclusions:  
 I. All painters are poets.  
 II. Some day dreamers are not painters  
 (1) Both I and II follow  
 (2) Neither I nor II follows  
 (3) Only I follows  
 (4) Only II follows

24. Six girls A, B, C, D, E, F are sitting on the ground. A and B belong to Ruby House, while the rest belong to Emerald House. D and F are tall, while others are short. C and D are wearing glasses while others are not wearing. Which girl of Emerald House is tall and is wearing glass?  
 (1) C (2) A  
 (3) D (4) B

**Directions (25-28):** In the following questions, find the odd number/letters/number pair from the given alternatives.

25. (1) NOSE  
 (2) EARS  
 (3) VESTIBULAR  
 (4) EYES
26. (1) (69, 23)  
 (2) (56, 19)  
 (3) (108, 36)  
 (4) (42, 14)
27. 32, 13, 51, 24, 46, 20, 72, 45  
 (1) 13 (2) 46  
 (3) 20 (4) 72
28. (1) Y U Q M  
 (2) S O K J  
 (3) R N J F  
 (4) T P L I
29. Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation.  
 $4 - 5 - 1 = 514$ ,  $3 - 5 - 6 = 563$ ,  
 $0 - 6 - 8 = ?$ .  
 (1) 680 (2) 860  
 (3) 068 (4) 806
30. A man takes 6 km. distance to go around the rectangular area. If the area of the rectangle is 2 sq. km., find the difference between length, and breadth.  
 (1) 2km.  
 (2) 0.5km.  
 (3) 1km. (4) 0.75 km.
31. From the answer figures, select the cut pieces from which the question figure is formed/made.  
 Question Figure  
  
 Answer Figures:  
  
 (1) (2) (3) (4)
32. If a mirror is placed on the line MN, which of the answer figures is the right image of the given figure?



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Question Figure:



Answer Figures



33. Identify which one of the given alternatives will be another member of the group of that class. Lucknow, Patna, Bhopal, Jaipur, ?
- (1) Shimla
  - (2) Mysore
  - (3) Pune
  - (4) Indore

34. In the question given below, the symbols used are as
- $\Delta$  = equal to
  - $\otimes$  = not equal to
  - $+$  = greater than
  - $\emptyset$  = less than
  - $-$  = not less than
  - $O$  = not greater than
- Read the question and mark the correct response.  
 If  $X - Y - Z$  then it does not.

- (1)  $X \otimes Y - Z$
- (2)  $X O Y + Z$
- (3)  $X \otimes Y - Z$
- (4)  $X \otimes Y + Z$

36. Arrange these letters of each group to make a meaningful word and then find the odd one out.
- (1) VEENS      (2) VIDEID
  - (3) ORFU      (4) GHIET

38. In a certain code language '481' means 'sky is blue', '246' means 'sea is deep' and '698' means 'sea looks blue'. What number is the code for 'blue'?
- (1) 8                      (2) 6
  - (3) 1                      (4) 9

37. Identify the answer figure from which the pieces given in the question figure have been cut.

Question Figure:



Answer Figures:



38. **Directions:** A word is represented by only one set of numbers as given in anyone of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 01, 14 etc. and 'E' can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'ORGAN'

Matrix - I

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

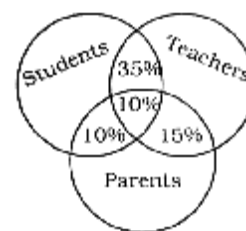
Matrix - II

	5	6	7	8	9
5	E	M	L	N	O
6	L	E	O	M	N
7	O	N	E	L	M
8	N	O	M	E	L
9	M	L	N	O	E

- (1) 75, 03, 11, 22, 76
- (2) 86, 40, 23, 14, 96
- (3) 98, 03, 44, 22, 58
- (4) 67, 22, 31, 58, 22

39. P, Q, R, S, T, U are 6 members of a family in which there are two married couples. T, a teacher is married to a doctor who is mother of Rand U. Q, the lawyer is married to P - P has one son and one grandson. Of the two married ladies one is a house wife. There is also one student and one male engineer in the family. Which of the following is true about the grand-daughter of the family?

- (1) She is a lawyer
  - (2) She is an engineer
  - (3) She is a student
  - (4) She is a doctor
39. In the given figure 10% are students and parents, and the 10% are students, teachers and parents, 15% are teachers and parents. 35% are students and teachers. How many percentage are only teachers, parents and students.



- (1) 45, 40, 65
- (2) 40, 65, 45
- (3) 40, 4?, 65
- (4) 65, 40, 45

**Directions (41-42):** In the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it.

41. adb \_ ac \_ da \_ cddcb \_ dbc \_ cbda
- (1) b c c b a
  - (2) c c b b a
  - (3) c b b a a
  - (4) b b cad
42. a b ca \_ b \_ c \_ a \_ cc
- (1) a c b c a b
  - (2) a b a b c a
  - (3) a c a c a b
  - (4) a b a b a c
43. In a certain code, LUTE is written as MUTE and GATE is written as



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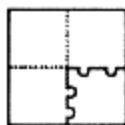
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HATE, then how BLUE will be written in that code?

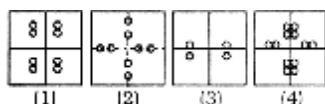
- (1) CLUE (2) FLUE  
(3) FLUD (4) GLUE

44. A piece of paper is folded and cut as shown below in the given question figures. From the given answer figures, indicate how it will appear when opened.

Question Figure:



Answer Figures:



**Directions (45-46):** In the following questions, which one of the given responses would be a meaningful order of the following?

45. 1. Crop 2. Root  
3. Stem  
4. Seed  
5. Flower  
(1) 2 3 5 1 4 (2) 2 4 5 1 3  
(3) 2 3 4 1 5 (4) 4 2 3 5 1

46. 1. Frog  
2. Eagle  
3. Grasshopper  
4. Snake  
5. Grass  
(1) 5, 3, 4, 2, 1  
(2) 1, 3, 5, 2, 4  
(3) 5, 3, 1, 4, 2  
(4) 3, 4, 2, 5, 1

47. Identify the pair which 'DOES NOT' exhibit the same relationship as the Capitalised pair :  
ETYMOLOGY : WORDS  
(1) PSYCHOLOGY : MIND  
(2) ANATOMY : BODY  
(3) ARCHAEOLOGY : ANTIQUES  
(4) PHILOSOPHY : LANGUAGE

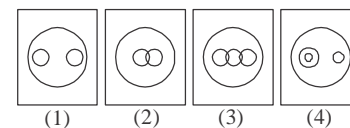
48. Name a single letter that can be suffixed to the following words to form new words ?

HAT BAR BAT PIN BATH

- (1) A (2) B  
(3) D (4) E

49. Identify the diagram that best represents the relationship among the classes given below:

Soda Water, Mineral Water, Luid



50. Sohan drove 15 kms to the west from his house, then turned left and walked 20 kms. He then turned East and walked 25 kms. and finally turning left covered 20 kms. How far he is from his house?  
(1) 5 Kms.  
(2) 40 Kms.  
(3) 10 Kms. (4) 80 Kms.

## GENERAL AWARENESS

51. 'Which of the following can be found as pollutants in the drinking water in some parts of India? Select the correct answer using the code given below.  
(A) Arsenic (B) Sorbitol  
(C) Fluoride  
(D) Formaldehyde  
(E) Uranium  
(1) B, D and E  
(2) A, B, C, D and E  
(3) A, C and E  
(4) A and C
52. Cyanide poisoning causes death in seconds because  
(1) It denatures enzymes of the heart/muscle  
(2) It breaks the electron transport chain  
(3) It causes Lysis of red blood cells.  
(4) It causes cardiac arrest
53. Xenobiotics which are inherently resistant to microbial attack are called as:  
(1) Biodegradable  
(2) Persistent  
(3) All of the given options  
(4) Recalcitrant
54. The Battle of Plassey was fought in year  
(1) 1775 (2) 1757  
(3) 1761 (4) 1576
55. Who discovered the first antibiotic ?  
(1) W Fleming (2) C Waksman  
(3) Louis Pasteur  
(4) A Fleming
56. Indian first talkie film produced in 1931 was  
(1) Shakuntala  
(2) Indra Sabha  
(3) Neel Kamal  
(4) Alamara
57. State Bank of India was previously known as:  
(1) Imperial **Bank** of India  
(2) Canara Bank  
(3) Syndicate Bank  
(4) Co-operative Bank of India
58. On 2nd June 2015 a Conference on Make in India Indigenization of currency was organised by the department of Economic Affairs, Ministry of Finance, Govt. of India. Who inaugurated the Conference?  
(1) Finance Minister  
(2) Finance Secretary  
(3) Governor R.B.I.  
(4) Prime Minister
59. The ore of Aluminium is  
(1) Fluorspar  
(2) Bauxite  
(3) Chalco pyrites  
(4) Hematite



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60. In the grass lands, trees do not replace the grasses as a part of an ecological succession because of  
 (1) Limited sun light and paucity of nutrients  
 (2) None of the options  
 (3) Insect and fungi  
 (4) Water limits and fire
61. The Mediterranean region are characterized by heavy rain in:  
 (1) Winter (2) Spring  
 (3) Autumn (4) Summer
62. Earthquakes are caused by  
 (1) Denudation  
 (2) Tectonism  
 (3) Earth revolution  
 (4) Earth rotation
63. The oldest form of composition of Hindustani vocal music is  
 (1) Dhurpad (2) Thumri  
 (3) Ghazal  
 (4) None of the options
64. The Women's Reservation Bill seeks how much reservation for women in the State assemblies and Lok Sabha ?  
 (1) 30% (2) 25%  
 (3) 33% (4) 36%
65. The Dynamo converts  
 (1) Electrical Energy into Mechanical Energy  
 (2) Mechanical Energy into Magnetic Energy  
 (3) None of these  
 (4) Mechanical Energy into Electrical Energy
66. When is International 'Yoga Divas' is celebrated?  
 (1) 21 June (2) 21 May  
 (3) 25 April (4) 21 July
67. Which was the first hydel power project in India ?  
 (1) Pallivasal in Kerala  
 (2) Paikara in Tamil Nadu  
 (3) Siva Samudram in Karnataka  
 (4) Nizamnagar in Andhra Pradesh
68. Microbial Type Culture Collection Centre is situated at:  
 (1) Bangalore (2) Chandigarh  
 (3) New Delhi (4) Hyderabad
69. Mahatma' Gandhi began his political activities in India first from:  
 (1) Dandi (2) Kheda  
 (3) Sabarmati (4) Champaran
70. Raga Kameshwari was composed by  
 (1) Ustad Amzad Ali Khan  
 (2) None of the options  
 (3) Pandit Ravi Shankar  
 (4) Uday Shankar
71. The father of computer is  
 (1) Oliver Twist  
 (2) Charles Dickens  
 (3) Charles Babbage  
 (4) Love Lice
72. In which year did Dada Saheb Phalke produce the first feature film?  
 (1) 1911 (2) 1913  
 (3) 1910 (4) 1912
73. The earth completes one rotation on its axis in :  
 (1) 23 hrs. 56 min. 4.9 sec  
 (2) 23 hrs. 10 min. 2 sec  
 (3) 23 hrs. 30 min.  
 (4) 24 hrs.
74. What is the fascist view of state ?  
 (1) State enhances the ideal of individualism  
 (2) Nation state is unquestionably sovereign  
 (3) State is the instrument of exploitation in the hands of few.  
 (4) State is under the control of a king
75. The Environment (Protection) Bill was passed by the Parliament of India in -  
 (1) 1984 (2) 1972  
 (3) 1986 (4) 1981
76. "Don't Laugh : We are Police", this book was compiled by  
 (1) Shanti Swaroop I.G  
 (2) None of the options  
 (3) Bishan Lal Vohra I. G P  
 (4) K.P.S. Gill D.GP
77. What is ordinary Law?  
 (1) Laws made by the High Court  
 (2) Laws made by the Supreme Court  
 (3) Laws made and enforced by the Government  
 (4) Laws made by the common people.
78. For a missile launched with a velocity less than the earth's escape velocity, the total energy is  
 (1) either positive or negative  
 (2) Negative  
 (3) Zero  
 (4) Positive
79. Molybdenum deficiency affects the activity of:  
 (1) All of the given options  
 (2) Chlorate reductase  
 (3) Nitrogenase  
 (4) Nitrate reductase
80. Waksman got the Nobel Prize for the discovery of :  
 (1) Streptomycin  
 (2) Chloromycetin  
 (3) Neomycin  
 (4) Penicillin
81. The business in Stock Markets and other securities markets is regulated  
 (1) Securities and Exchange Board of India  
 (2) Sole Trade and Exchange Bank of India  
 (3) State and Exchange Bank of India  
 (4) Stock and Exchange Bank of India
82. Liberalism stands for  
 (1) religious orthodoxy  
 (2) a movement and an attitude  
 (3) self-emancipation  
 (4) freedom in social, political and economic aspects
83. Heavy metals got their name because compared to other atoms they have  
 (1) Higher densities  
 (2) Higher atomic masses  
 (3) Higher atomic numbers  
 (4) Higher atomic radii
84. Photo chemical smog is a resultant of the reaction among



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- (1) High concentration of NO<sub>2</sub>, O<sub>3</sub>, and CO in the evening  
 (2) CO, CO<sub>2</sub> and NO<sub>2</sub> at low temperature.  
 (3) CO, O<sub>2</sub> and peroxy acetyl nitrate in the presence of Sunlight  
 (4) NO<sub>2</sub>, O<sub>3</sub> and peroxy acetyl nitrate in the presence of Sunlight
85. The Liquidity Preference Theory of Interest was propounded by:  
 (1) J.M. Keynes  
 (2) David Ricardo  
 (3) Alfred Marshall  
 (4) Adam Smith
86. Which of the following costs is related to marginal cost?  
 (1) Variable Cost  
 (2) Implicit Cost  
 (3) Prime Cost (4) Fixed Cost
87. Fascism believes in the application of the principle of:  
 (1) Dictatorship  
 (2) Democracy  
 (3) Utilitarianism  
 (4) Totalitarianism
88. Autocracy means \_\_\_\_\_  
 (1) Rule by few  
 (2) Rule by King  
 (3) Absolute rule by one  
 (4) Rule by the representatives of the People
89. When a helium atom loses an electron it becomes:  
 (1) A negative helium ion  
 (2) A proton  
 (3) An alpha particle  
 (4) A positive helium ion
90. When one gene pair hides the effect of the other unit, the phenomenon is referred to as:  
 (1) Epistasis  
 (2) Mutation  
 (3) None of the options  
 (4) Dominance
91. The classical Dance of Andhra Pradesh is  
 (1) Kuchipudi (2) Odissi  
 (3) Bharatanatyam  
 (4) Kathakali
92. Who directed the film on the dacoit queen Phoolan Devi?  
 (1) Abbas Mastan  
 (2) Shashi Kapoor  
 (3) Shekhar Kapoor  
 (4) Anil Kapoor
93. PSW stands for  
 (1) Program status word  
 (2) Processor status word  
 (3) Process status word  
 (4) Primitive status word
94. The name of the upper house of the Indian Parliament is:  
 (1) Senate  
 (2) Rajya Sabha  
 (3) House of Lords  
 (4) Legislative Assembly
95. G E of, an international aid - giving agency has the full form  
 (1) Global Environment Fund  
 (2) Global Educational Fund  
 (3) Global Economic Fund  
 (4) Global Energy Fund
96. Spring tides occur on  
 (1) New moon day only  
 (2) Full moon day as well as on new moon day  
 (3) Full moon day only  
 (4) The day when the moon's position is in its first quarter
97. Which one of the following is the correct sequence of eco-system in the order of decreasing productivity?  
 (1) Oceans, mangroves, lakes, grassland  
 (2) Mangroves, oceans, grassland, lakes  
 (3) Oceans, lakes, grassland, mangroves  
 (4) Mangroves, grasslands, lakes, oceans
98. Who is considered founder of the Gupta Empire?  
 (1) Srigupta  
 (2) Samudra Gupta  
 (3) Chandra Gupta I  
 (4) Chandra Gupta II
99. A Fuse wire is characterised by  
 (1) High resistance and low melting point  
 (2) High resistance and high melting point  
 (3) Low resistance and high melting point  
 (4) Low resistance and low melting point
100. The technology used in the electronic printer is called  
 (1) Micro array  
 (2) Micromillimetric  
 (3) Micro technology  
 (4) Micro encapsulation

## QUANTITATIVE APTITUDE

101. XY and XZ are tangents to a circle, ST is another tangent to the circle at the point R on the circle, which intersects XY and XZ at Sand T respectively. If XY = 15 cm and TX = 9 cm, then RT is  
 (1) 4.5 cm (2) 7.5 cm  
 (3) 6 cm (4) 3 cm
102. Pipe A can fill a tank in 4 hours and pipe B can fill it in 6 hours. If they are opened on alternate hours and if pipe A is opened first, in how many hours, the tank shall be full?  
 (a)  $4\frac{1}{2}$  (b)  $3\frac{1}{2}$   
 (c)  $3\frac{1}{4}$  (d)  $4\frac{2}{3}$
103. The value of  $\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 89^\circ$  is  
 (1) 1 (2) -2  
 (3) 0 (4) None of the options



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104. If  $x + \frac{1}{x} = 1$  then the value of

$$\frac{x^2 + 3x + 1}{x^2 + 7x + 1}$$
 is

(1) 1                      (2)  $\frac{3}{7}$

(3)  $\frac{1}{2}$                     (4) 2

105. In a rhombus ABCD,  $\angle A = 60^\circ$  and AB = 12 cm. Then the diagonal BD is

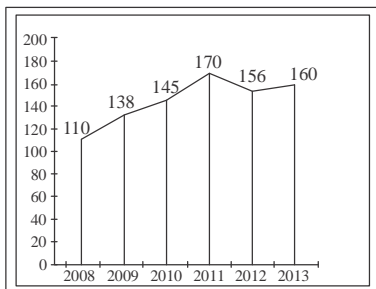
(1) 10 cm            (2)  $2\sqrt{3}$  cm  
 (3) 6 cm              (4) 12 cm

106. The printed price of an article is 40% higher than its cost price. Then the rate of discount such that he gains 12% profit is

(1) 21%                (2) 15%  
 (3) 20%                (4) 18%

**Directions (107-109):** Study the following frequency polygon and answer the questions.

Given a line graph showing the number of students passed in Higher Secondary Examination in a school over the years 2008 to 2013.



107. The average of passed students in the years 2008, 2009, 2012 approximately is

(1) 134.32            (2) 134.41  
 (3) 134.56            (4) 134.67

108. The increase in percentage of passed students from 2008 to 2011 approximately is

(1) 55%                (2) 50.5%  
 (3) 54.5%            (4) 53.05%

109. The decrease in percentage of passed students from 2011 to 2012 approximately is

(1) 8.25%            (2) 8.27%  
 (3) 8.24%            (4) 8.22%

110. If  $\frac{\cos a}{\sin b} = n$  and  $\frac{\cos a}{\sin b} = m$ , then the value of  $\cos^2 \beta$  is

(1)  $\frac{m^2}{m^2 + n^2}$         (2)  $\frac{1}{m^2 + n^2}$

(3)  $\frac{n^2}{m^2 + n^2}$         (4) 0

111. The list price of a book is Rs. 100. A dealer sells three such books for

Rs. 274.50 after allowing discount at a certain rate. Find the rate of discount.

(1) 8.16%            (2) 8.5%  
 (3) 8.34%            (4) 8.33%

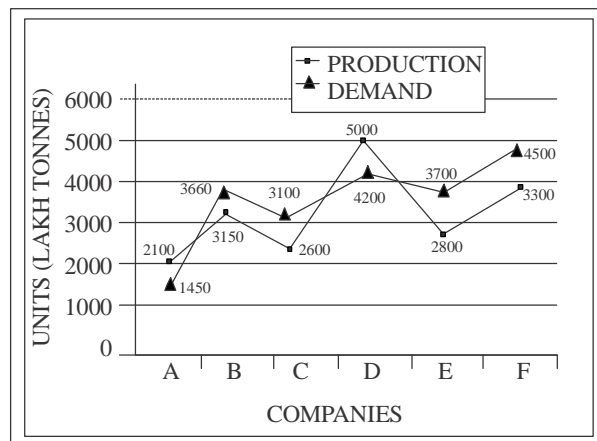
112. If PQRS is a rhombus and  $\angle SPQ = 50^\circ$ , then  $\angle RSQ$  is

(1)  $55^\circ$                 (2)  $65^\circ$   
 (3)  $75^\circ$                 (4)  $45^\circ$

113. ABC is a triangle and the sides AB, BC and CA are produced to E, F and G respectively. If  $\angle CBE = \angle ACF = 130^\circ$  then the value of  $\angle GAB$  is

(1)  $100^\circ$             (2)  $130^\circ$   
 (3)  $80^\circ$                 (4)  $90^\circ$

**Directions (114 - 117):** In the following questions, the Graph shows the demand and production of different companies. Study the graph and answer the questions.



114. The demand of company B is what percentage of the production of company F ?

(1) 60%                (2) 70%  
 (3) 80%                (4) 50%

115. What is the difference between the average demand and the average production of the companies (in lakh tonnes)? [Approximately]

(1) 200                (2) 325  
 (3) 275                (4) 250

116. The production of company A is approximately what percent of the demand of company C?

(1) 50%                (2) 65%  
 (3) 60%                (4) 55%

117. What is the ratio of the companies having more demand than production to those having more production than demand?

(1) 2:3                (2) 1:2  
 (3) 3:2                (4) 2:1

118. A and B entered into a partnership investing Rs 16000 and Rs. 12000 respectively. After 3 months A withdrew Rs. 5000 while B invested Rs. 5000 more. After 3 more months C joins the business



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- with a capital of Rs 21000. The share of B exceeds that of C, out of a total profit of Rs. 26400 after one year by  
 (1) Rs. 2400 (2) Rs. 1200  
 (3) Rs. 3600 (4) Rs. 4800
119. Raj and Prem walk in opposite directions at the rate of 3 km and 2 km per hour respectively. How far will they be from each other after 2 hours?  
 (1) km (2) 8km  
 (3) 6km (4) 2km
120. If  $0^\circ \leq A \leq 90^\circ$ , the simplified form of the given expression  $\sin A \cos A (\tan A - \cot A)$  is  
 (1) 1 (2)  $1 - 2 \sin^2 A$   
 (3)  $2 \sin^2 A - 1$  (4)  $1 - \cos^2 A$
121. Out of four numbers the average of the first three is 16 and that of the last three is 15. If the last number is 20 then the first number is  
 (1) 23 (2) 25  
 (3) 28 (4) 21
122. The length of canvas, 75 cm wide required to build a conical tent of height 14m and the floor area 346.5 m<sup>2</sup> is  
 (1) 665m (2) 860m  
 (3) 490m (4) 770m
123. ABC is a cyclic triangle and the bisectors of  $\angle BAC$ ,  $\angle ABC$  and  $\angle BCA$  meet the circle at P, Q, and R respectively. Then the angle  $\angle RQP$  is  
 (1)  $90^\circ - \frac{B}{2}$  (2)  $90^\circ + \frac{B}{2}$   
 (3)  $90^\circ + \frac{C}{2}$  (4)  $90^\circ - \frac{C}{2}$
124. If  $x = \sqrt{a^3 \sqrt{b \sqrt{a^3 \sqrt{b}}}} \dots \infty$  then the value of  $x$  is  
 (1)  $5\sqrt{ab^3}$  (2)  $3\sqrt{a^3 b}$   
 (3)  $3\sqrt{a^5 b}$   
 (4)  $5\sqrt{a^3 b}$
125. If  $\theta$  is an acute angle and  $\tan^2 \theta + \frac{1}{\tan^2 \theta} = 2$ , then the value of  $\theta$  is:  
 (1)  $60^\circ$  (2)  $45^\circ$   
 (3)  $15^\circ$  (4)  $30^\circ$
126. If the cube root of 79507 is 43, then the value of  $\sqrt[3]{79.507} + \sqrt[3]{0.079507} + \sqrt[3]{0.000079507}$   
 (1) 0.4773 (2) 477.3  
 (3) 47.73 (4) 4.773
127. If  $\tan \theta + \cot \theta = 5$ , then  $\tan^2 \theta + \cot^2 \theta$  is  
 (1) 23 (2) 25  
 (3) 26 (4) 24
128. A number exceeds its two fifth by 75. The number is  
 (1) 125 (2) 112  
 (3) 100 (4) 150
129. A, Band C can do a piece of work in 24, 30 and 40 days respectively. They began the work together but Cleft 4 days before completion of the work. In how many days was the work done?  
 (1) 13 (2) 12  
 (3) 14 (4) 11
130.  $\frac{x}{y} = \frac{3}{4}$ , the ratio of  $(2x + 3y)$  and  $(3y - 2x)$  is  
 (1) 2:1 (2) 3:2  
 (3) 1:1 (4) 3:1
131. The percentage increase in the surface area of a cube when each side is doubled is  
 (1) 50% (2) 200%  
 (3) 150% (4) 300%
132. A shopkeeper gains 17% after allowing a discount of 10% on the marked price of an article. Find his profit percent if the articles are sold at marked price allowing no discount.  
 (1) 30% (2) 23%  
 (3) 27% (4) 37%
133. A man spends 75% of his income. His income is increased by 20% and he increased his expenditure by 10%. His savings are increased by  
 (1)  $37\frac{1}{2}\%$  (2) 50%  
 (3) 25% (4) 10%
134. Cost price of 100 books is equal to the selling price of 60 books. The gain percentage/loss percentage is  
 (1)  $66\frac{3}{2}\%$  (2) 67%  
 (3) 66% (4)  $66\frac{2}{3}\%$
135. The ratio of each interior angle to each exterior angle of a regular polygon is 3:1. The number of sides of the polygon is  
 (1) 9 (2) 7  
 (3) 6 (4) 8
136. A sum of money lent out at simple interest amounts to Rs. 720 after 2 years and Rs. 1020 after a further period of 5 years. Find the principal.  
 (1) Rs.600 (2) Rs.1740  
 (3) Rs. 6000 (4) Rs. 120
137. If  $m - 5n = 2$ , then the value of  $(m^3 - 125n^3 - 30mn)$  is  
 (1) 13.3 (2) 12  
 (3) 3 (4) 14.5
138. If  $x + \frac{1}{x} = 2$  then the value of  $x^{12} - \frac{1}{x^{12}}$  is  
 (1) 2 (2) -4  
 (3) 0 (4) 4
139. Find the square root of  $\frac{(0.064 - 0.008)(0.16 - 0.04)}{(0.16 + 0.08 + 0.04)(0.4 + 0.2)^3}$   
 (1) 3 (2)  $\frac{1}{3}$   
 (3)  $\frac{2}{3}$  (4)  $\frac{3}{2}$
140. If two medians BE and CF of a triangle ABC, intersect each other at G and if  $BG = CG$ ,  $\angle BGC = 60^\circ$



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- and BC = 8 cm then area of the triangle ABC is
- (1)  $96\sqrt{3}$  cm<sup>2</sup>  
 (2)  $64\sqrt{3}$  cm<sup>2</sup>  
 (3)  $48\sqrt{3}$  cm<sup>2</sup>  
 (4) 48 cm<sup>2</sup>
141. Given that  $x^3 + y^3 = 72$  and  $xy = 6$  with  $xy = 6$  with  $x > y$ . Then the value of  $(x - y)$  is
- (1) 4 (2) -4  
 (3) 2 (4) -2
142. If two supplementary angles differ by  $44^\circ$ , then one of the angles is
- (1)  $68^\circ$  (2)  $65^\circ$   
 (3)  $102^\circ$  (4)  $72^\circ$
143. If the sum of two numbers, one of which is  $\frac{2}{5}$  times the other, is 50, then the numbers are
- (1)  $\frac{115}{7}$  and  $\frac{235}{7}$   
 (2)  $\frac{150}{7}$  and  $\frac{200}{7}$   
 (3)  $\frac{270}{7}$  and  $\frac{110}{7}$
- (4)  $\frac{250}{7}$  and  $\frac{100}{7}$
145. A boat can travel with a speed of 13 km/hr in still water. If the speed of stream is 4 km/hr in the same direction, time taken by boat to go 63 km in opposite direction is
- (1) 9 hrs (2) 4 hrs  
 (3) 7 hrs (4)  $3\frac{9}{17}$  hrs
146. The measures of two angles of a triangle are in the ratio 4 : 5. If the sum of these two measures is equal to the measure of the third angle, find the smallest angle.
- (1)  $10^\circ$  (2)  $50^\circ$   
 (3)  $90^\circ$  (4)  $40^\circ$
147. A person of height 6 ft. wants to pick a fruit which is on a  $\frac{26}{3}$  ft. high tree. If the person is standing  $\frac{8}{\sqrt{3}}$  ft. away from the base of the tree, then at what angle should he throw a stone so that it hits the fruit?
- (1)  $75^\circ$  (2)  $30^\circ$  (3)  $45^\circ$  (4)  $60^\circ$
148. The angle of elevation of a tower from a distance of 100 metre from its foot is  $30^\circ$ . Then the height of the tower is
- (1)  $50\sqrt{3}$  metre  
 (2)  $100\sqrt{3}$  metre  
 (3)  $\frac{50}{\sqrt{3}}$  metre  
 (4)  $\frac{100}{\sqrt{3}}$  metre
149. A can do a work in 10 days and B in 20 days. If they, together work on it for 5 days, then the fraction of the work that is left is
- (1)  $\frac{3}{4}$  (2)  $\frac{4}{3}$   
 (3)  $\frac{3}{20}$  (4)  $\frac{1}{4}$
150. Two circles touch each other externally. The sum of their areas is  $130\pi$  sq cm and the distance between their centres is 14 cm. The radius of the smaller circle is
- (1) 2 cm  
 (2) 4 cm  
 (3) 5 cm (4) 3 cm

## ENGLISH LANGUAGE

**Directions (151-155):** In the following questions, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

### Passage

The public distribution system, which provides food at low prices, is a subject of vital concern. There is a growing realization that though India has enough food to feed its masses two square meals a day, the monster of starvation and food insecurity continues to haunt the poor in our country.

Increasing the purchasing power of the poor through providing productive employment leading to rising income, and thus good standard of living is the ultimate objective of public policy. However, till then, there is a need to provide assured supply of food through a restructured, more efficient and decentralized public distribution system (PDS). Although the PDS is extensive - it is one of the largest such systems in the world- it hasn't reached the rural poor and the remote places. It remains an urban phenomenon, with the majority of the rural poor still out of its reach due to lack of economic and physical access.

The poorest in the cities and the migrants are left out, for they generally do not possess ration cards. The allocation of PDS supplies in big cities is larger than in rural areas. In view of such deficiencies in the system, the PDS urgently needs to be streamlined. Also, considering the large foodgrain production combined with food subsidy on one hand and the continuing slow starvation and dismal poverty of rural population on the other, there is a strong case for making PDS target-group oriented. By making PDS target-group oriented, not only the poorest and the neediest would be reached without



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additional cost but we can also reduce the overall costs incurred.

151. Which of the following is true of public distribution system?
- (1) It has remained effective only in the cities.
  - (2) It is unique in the world because of its effectiveness
  - (3) It has reached the remotest corner of the country.
  - (4) It has improved its effectiveness over the years.
152. The full form of PDS is
- (1) Private distribution system
  - (2) Partial distribution system
  - (3) Public distribution system
  - (4) Party distribution system
153. What according to the passage, would be the rationale of making the PDS target-group oriented?
- (1) It will remove poverty.
  - (2) It will motivate the target-group population to, work more.
  - (3) It will give food to the poorest section without additional cost.
  - (4) It will abolish the imbalance of urban and rural sectors.
154. The public distribution system, which provides food at \_\_\_\_\_ is a subject of vital concern.
- (1) low prices
  - (2) high prices
  - (3) as per capita income
  - (4) fair prices
155. What should be an appropriate step to make the PDS effective?
- (1) To reduce administrative cost.
  - (2) To decrease the allotment of food grains.
  - (3) To make it target-group oriented.
  - (4) To increase the amount of foodgrain per ration card.

**Directions (156-158):** In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

156. **PLEBISCITE**

- (1) Referendum
  - (2) Reservation
  - (3) Representation
  - (4) Renunciation
157. **FRUGAL**
- (1) Plain
  - (2) Simple
  - (3) Miserly
  - (4) Economical
158. **DIMINISH**
- (1) Prohibit
  - (2) Worsen
  - (3) Reduce
  - (4) Shorten

**Directions (159 - 168):** In the following questions, a sentence/ part of the sentence is printed in **bold**. Below are given alternatives to the bold sentence! part of the sentence at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

159. We do not **believe in a dual** policy of the company.
- (1) in this dual
  - (2) in these dual
  - (3) on these dual
  - (4) No improvement
160. This news is **too good to be** true.
- (1) cannot be true
  - (2) so good that it should be true
  - (3) No improvement
  - (4) so good that it cannot be true
161. The notorious criminal **went to the police to go to prison**.
- (1) submitted to the police
  - (2) surrendered himself before the police
  - (3) No improvement
  - (4) gave himself up for the police
162. If he has time he **will** telephone.
- (1) could
  - (2) might
  - (3) would
  - (4) No improvement
163. He met **European lady at the conference who works for an NGO**.
- (1) European lady who works for an NGO at the conference
  - (2) No improvement
  - (3) a European lady who works for an NGO, at the conference
  - (4) an European lady at the

conference who works for an NGO

164. **I did not see** you for a long time.
- (1) have not seen
  - (2) saw
  - (3) No improvement
  - (4) have not been seeing
165. The glass figurine **that was being shown** in the store window appealed to me.
- (1) No improvement
  - (2) that was on display
  - (3) that was exhibited
  - (4) that was advertised
166. He is **somehow** tall for his age.
- (1) No improvement
  - (2) rather
  - (3) many
  - (4) much
167. The practice of **starving the children** in order to cure diarrhoea also aggravates the situation.
- (1) starving child
  - (2) No improvement
  - (3) starve children
  - (4) starving children
168. She said that she was glad to **be here** that evening.
- (1) to come here
  - (2) to be there
  - (3) to have been here
  - (4) No improvement

**Directions (169-173):** In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If a sentence is free from error, your answer is (4) i.e. No error.

169. You are required to give an explanation for your conduct within two days of the receipt of this letter.
- (1) No error
  - (2) for your conduct
  - (3) within two days of the receipt of his letter.
  - (4) You are required to give an explanation
170. The ruins of the spillway are a vital clue to the epic struggle that



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unfold as generations of Khmer engineers coped with a water system that grew complex and unruly.

- (1) coped with a water system that grew complex and unruly.  
 (2) to the epic struggle that unfold as generations of Khmer engineers  
 (3) The ruins of the spillway are a vital clue  
 (4) No error

171. Bobby learnt the alphabets at the age of two.

- (1) No error (2) age of two  
 (3) Bobby learnt the alphabets at the .

172. Thesum and substance of this poem is as follows.

- (1) of this poem  
 (2) No error  
 (3) The sum and substance  
 (4) is as follows

173. I watched how the pianoist used her left hand.

- (1) I watched how  
 (2) the pianoist  
 (3) No error  
 (4) used her left hand

**Directions (174-180):** In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/ sentence.

174. One who does not believe in the existence of God

- (1) Atheist (2) Theist  
 (3) Mystic (4) Cynic

175. To free someone from all blames

- (1) Consolidate  
 (2) Fling (3) Forbid  
 (4) Exonerate

176. That which cannot be effaced

- (1) Illegible (2) Indelible  
 (3) Invincible (4) Affable

177. A person who deliberately sets fire to a building

- (1) Arsonist (2) Extortionist  
 (3) Hijacker  
 (4) Assassin

178. One who makes an official examination of accounts

- (1) Auditor (2) Registrar  
 (3) Creditor  
 (4) Chartered Accountant

179. Conferred as an honor

- (1) Honorary (2) Honorable  
 (3) Honorarium (4) Honorific

180. The burial of a corpse

- (1) Internment (2) Interment  
 (3) Interrogate (4) Interpose

**Directions (181 - 185):** In the following questions, four alternatives are given for the Idiom! Phrase printed in **bold** in the sentence. Choose the alternative which best expresses the meaning of the idiom/Phrase.

181. He's **as daft as a brush**. Don't believe a word of what he says.

- (1) a liar  
 (2) very funny (3) really silly  
 (4) unreliable

182. I hope you will **back me** at the meeting.

- (1) criticise  
 (2) speak after I do  
 (3) follow (4) support

183. A **closefisted man** does not know the 'significance of human life.

- (1) a poor man  
 (2) a rich man  
 (3) a miser  
 (4) an ill-mannered man

184. I shall always remember my **alma mater** with gratitude.

- (1) Institution where I got education  
 (2) teacher who inspired me  
 (3) mother's loving care  
 (4) kindergarten days

185. I and my friend always **go Dutch** when we eat out.

- (1) drive together  
 (2) pay for each other's meal  
 (3) go together  
 (4) divide the costs

**Directions (186-190):** In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested

for each question. Choose the correct alternative out of the four as your answer.

186. She pipped her rival \_\_\_ the gold medal

- (1) with (2) for  
 (3) to (4) near

187. Work should be guided by some \_\_\_\_\_ desire of altruism and \_\_\_\_\_.

- (1) genuine ; philanthropy  
 (2) false ; honesty  
 (3) shallow; ability  
 (4) good; liberty

188. Ships are \_\_\_\_\_ by giant engines.

- (1) dragged (2) sailed  
 (3) pulled (4) driven

189. Krisda's storiesme \_\_\_\_\_ very strangely.

- (1) effected (2) affected  
 (3) changed (4) afflicted

190. By morning, the fury of the floods \_\_\_\_\_.

- (1) ebbed (2) receded  
 (3) retired (4) abated

**Directions (191-193):** In the following questions, choose the word opposite in meaning to the given word.

191. URBANE

- (1) Loud (2) Native  
 (3) Crude (4) Rural

192. BOLD

- (1) Timid (2) Nervous  
 (3) Coy (4) Fearful

193. AUTHENTIC

- (1) Genuine (2) False  
 (3) Factual (4) Real

**Directions (194 to 198):** In the following questions, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

### Passage

The desert floras shame us with their cheerful adaptations to the seasonal limitations. Their whole duty is to flower and fruit, and they do it hardy,



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or with tropical luxuriance, as the rain admits. It is recorded in the report of the Death Valley expedition that after a year of abundant rains, on the Colorado desert was found a specimen of *Amaranthus* ten feet high. A year later the same species in the same place matured in the drought at four inches. Seldom does the desert herb attain the full stature of the type. Extreme aridity and extreme altitude have the same dwarfing effect, so that we find in the high Sierras and in Death Valley related species in miniature that reach a comely growth in mean temperatures. Very fertile are the desert plants in expedients to prevent evaporation, turning their foliage edgewise toward the sun, growing silky hairs, exuding thick gum. The wind, which has a long sweep, harries and helps them. It rolls up dunes about the stocky stems, encompassing and protective, and above the dunes, which may be, as with the mesquite, three times

as high as a man, the blossoming twigs flourish and bear fruit.

194. What lesson do the desert floras have to teach us ?

- (1) how to live a long time
- (2) how to adapt to limitations
- (3) how to grow with grace.
- (4) how to grow in dry places.

195. How does the wind keep the desert floras to grow?

- (1) by blowing the heat away
- (2) by rolling up protective sand dunes.
- (3) by blowing gently
- (4) by blowing the clouds away

196. The desert plants face the danger of \_\_\_\_\_ from extreme aridity and extreme altitude.

- (1) early death
- (2) loss of reproduction
- (3) painful growth
- (4) dwarfism

197. The mesquite is a \_\_\_\_\_

- (1) a tribe of people

(2) a type of desert animal

(3) a sand dune

(4) a desert flora

198. What stops the desert floras performing their duty well?

- (1) the desert sand
- (2) the rain
- (3) the people who pluck them
- (4) the sesert animals

**Directions (199 - 200):** In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

199. (1) coherent  
(2) commendation  
(3) tommorow  
(4) advicable
200. (1) aneurysm  
(2) ann onymous  
(3) disipate  
(4) carcas

## ANSWERS

1.(1)	2.(3)	3. (1)	4. (4)	5. (1)	6. (3)	7. (3)	8.(1)	9. (1)	10. (2)
11.(4)	12. (1)	13. (1)	14. (4)	15. (1)	16. (*)	17. (2)	18. (4)	19. (4)	20. (3)
21. (4)	22. (3)	23. (2)	24. (3)	25. (3)	26. (2)	27. (1)	28. (3)	29. (1)	30. (3)
31. (1)	32. (3)	33. (1)	34. (*)	35. (2)	36. (1)	37. (2)	38. (3)	39. (3)	40. (2)
41. (3)	42. (3)	43. (1)	44. (2)	45. (4)	46. (3)	47. (4)	48. (4)	49. (1)	50. (3)
51. (3)	52. (4)	53. (4)	54. (2)	55. (4)	56. (4)	57. (1)	58. (1)	59. (2)	60. (4)
61. (1)	62. (2)	63. (1)	64. (3)	65. (4)	66. (1)	67. (3)	68. (2)	69. (4)	70. (3)
71. (3)	72. (2)	73. (1)	74. (2)	75. (3)	76. (3)	77.(3)	78. (2)	79. (4)	80. (1)
81. (1)	82. (4)	83. (2)	84. (4)	85. (1)	86. (1)	87. (4)	88. (3)	89. (4)	90. (1)
91. (1)	92. (3)	93. (1)	94. (2)	95. (1)	96. (2)	97. (4)	98. (1)	99. (4)	100. (4)
101. (3)	102. (4)	103. (1)	104. (3)	105. (4)	106. (3)	107. (4)	108. (3)	109. (3)	110. (3)
111. (2)	112. (2)	113. (1)	114. (4)	115. (3)	116. (4)	117. (2)	118. (3)	119. (1)	120. (3)
121. (1)	122. (4)	123. (1)	124. (4)	125. (2)	126. (4)	127. (1)	128. (1)	129. (4)	130. (4)
131. (4)	132. (1)	133. (2)	134. (4)	135. (4)	136. (1)	137. (3)	138. (2)	139. (1)	140. (2)
141. (3)	142. (*)	143. (1)	144. (4)	145. (3)	146. (4)	147. (2)	148. (4)	149. (4)	150. (4)
151. (1)	152. (3)	153. (3)	154. (1)	155. (3)	156. (1)	157. (4)	158. (3)	159. (1)	160. (4)
161. (2)	162. (4)	163. (3)	164. (1)	165. (2)	166. (2)	167. (2)	168. (2)	169. (3)	170. (2)
171.(4)	172. (2)	173. (2)	174. (1)	175.(4)	176. (2)	177. (1)	178. (1)	179. (1)	180. (2)
181. (3)	182. (4)	183. (3)	184. (1)	185. (4)	186. (2)	187. (1)	188. (2)	189. (2)	190. (4)
191. (3)	192. (1)	193. (2)	194. (2)	195. (2)	196. (4)	197. (4)	198. (2)	199. (2)	200. (1)



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# SSC-CGL PRE. EXAM 2014

Held On: 26-10-2014 (Morning Shift)

## REASONING

Directions (Q. Nos. 1-6) In the following questions, select the related word/ letters/number from the given alternatives.

- Optimist : Cheerful :: Pessimist : ?  
(a) Petty (b) Selfish  
(c) Gloomy (d) Mean
- YTOJ : XSNI :: WRMH : ?  
(a) VQLG (b) TOJE  
(c) RMHC (d) UPKF
- EIGK : EACY :: RVTY : ?  
(a) RVSQ (b) RNPL  
(c) RWUY (d) RMPL
- 720 : 840 :: 60 : ?  
(a) 76 (b) 80  
(c) 70 (d) 74
- 225 : 256 :: 289 : ?  
(a) 234 (b) 361  
(c) 324 (d) 432
- Money : Misappropriation :: Writing : ?  
(a) Deception (b) Mistake  
(c) Plagiarism (d) Theft

Directions (Q. Nos. 7-11) Select the one which is different from other three alternatives.

- (a) Rival (b) Opponent  
(c) Foe (d) Ally
- (a) 27 (b) 35  
(c) 18 (d) 9
- (a) 9-72 (b) 8-56  
(c) 11-115 (d) 10-90
- (a) TUVX (b) OPRS  
(c) BCDF (d) HIJL

- (a) Bay (b) Cape  
(c) Peninsula (d) Island
- Which one of the given response would be a meaningful order of the following?  
1. Seed 2. Plant  
3. Germination 4. Embryo  
5. Flower 6. Fruit  
(a) 1, 5, 3, 4, 2, 6  
(b) 1, 4, 3, 2, 5, 6  
(c) 6, 5, 4, 3, 1, 2  
(d) 1, 5, 6, 4, 2, 3
- Arrange the following words as per order in the English dictionary.  
1. Live 2. Litter  
3. Little 4. Literacy  
5. Living  
(a) 3, 4, 2, 1, 5  
(b) 3, 2, 4, 5, 1  
(c) 4, 3, 5, 2, 1 (d) 4, 2, 3, 1, 5
- Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?  
ipi\_upog\_pig\_pogi\_g  
(a) iupgg (b) upgii  
(c) puigp (d) giupi
- In the following series, how many KGN occur in such a way that 'G' is in the middle and 'K' and 'N' are adjacent to it on both sides?  
A K G L M N D Q K G C S N G K  
T G K G N D Z P U X G K E  
(a) 3 (b) 5  
(c) 1 (d) 2

Directions (Q. Nos. 16-18) In the Following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 1, 0, 3, 2, 5, 6, ?, 12, 9, 20  
(a) 9 (b) 10  
(c) 7 (d) 8
- SHG, RIF, QJE, PKD, ?  
(a) NME (b) NLB  
(c) OLE (d) OLC
- 7, 8, 18, 57, ?, 1165  
(a) 174 (b) 232  
(c) 224 (d) 228
- There are five friends – Sachin, Kamal, Mohan, Arun and Ram. Sachin is shorter than Kamal, but taller than Ram. Mohan is the tallest. Arun is a little shorter than Kamal and a little taller than Sachin. Who is the second tallest?  
(a) Ram (b) Sachin  
(c) Kamal (d) Arun
- A is the brother of B, B is the daughter of C and D is the father of A. Then, how is C related to D?  
(a) Husband (b) Wife  
(c) Granddaughter  
(d) Grandfather
- From the given alternative words, select the word which can be formed using the letters of the given word.  
DEMOCRACY  
(a) SECRECY (b) MICRO  
(c) MARCY (d) DEMON



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22. From the given alternative words, select the word which cannot be formed using the letters of the given word  
INCARCERATION  
(a) RELATION  
(b) TERRAIN  
(c) INACTION  
(d) CREATION
23. Mr. Mani's age is 47 yr and John's age is 13 yr. In how many years will Mr. Mani's age be double of John's age?  
(a) 20 (b) 21 (c) 10 (d) 15
24. If in a certain code 'INTELLIGENCE' is written as 'ETNIGILLECNE', then how can 'MATHEMATICAL' be written in the same code?  
(a) AMHTMETACILA  
(b) TAMMEHITALAC  
(c) HTAMTAMELACI  
(d) LACITAMEHTAM
25. If in a certain code 'CHARACTER' is written as '241612376' and 'CHILDREN' is written as '24859670', then how can 'HIRALAL' be written in the same code?  
(a) 4861551  
(b) 4861515  
(c) 4685151  
(d) 4685511
26. Given below are capital letters in the first line and symbols in the second line. Symbols and letters are codes for each other. Choose the correct code for the given letters.
- |   |   |   |   |   |     |     |   |   |   |   |   |   |   |   |
|---|---|---|---|---|-----|-----|---|---|---|---|---|---|---|---|
| A | C | E | G | H | I   | O   | N | P | R | T | S | B | D | M |
| + | - | ÷ | × | = | ( ) | [ ] | ≠ |   | # |   | > | < |   |   |
- BEAST  
(a) | ÷ + ≠ || (b) | ÷ × # ||  
(c) | ÷ + # || (d) | ÷ + ≠ =
27. In an examination, 78% of the total students who appeared were successful. If the total number of failures was 176 and 34% got first class, then how many students got first class?
- (a) 272 (b) 112 (c) 210 (d) 254
28. Some letters are given with numbers from 1 to 6. Select the sequence of numbers which arranges the letters into a meaningful word  
1 2 3 4 5 6  
G I C O D N  
(a) 2, 1, 4, 3, 6, 5  
(b) 4, 3, 2, 6, 5, 1  
(c) 6, 5, 2, 3, 1, 4  
(d) 3, 4, 5, 2, 6, 1
29. Select the correct combination of mathematical signs to replace \* signs and to balance the following equation  
(8 \* 7 \* 6) \* 5 \* 10  
(a) × - ÷ =  
(b) - × ÷ +  
(c) + - ÷ ×  
(d) × + ÷ =
30. If '>' stands for 'division', '∨' stands for 'multiplication', '-' stands for 'greater than', '×' stands for 'less than', '<' stands for 'addition', '^' stands for 'subtraction', '+' stands for 'equal to', then which of the following equation is correct?  
(a)  $10 \wedge 3 < 5 < 4 + 16$   
(b)  $4 \wedge 6 < 4 < 4 + 16$   
(c)  $12 \wedge 3 < 5 < 4 + 12$   
(d)  $11 \wedge 12 < 5 < 4 + 12$
31. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.  
 $5 * 3 = 125$ ;  $4 * 3 = 64$ ;  $8 * 2 = ?$   
(a) 28 (b) 16  
(c) 32 (d) 64
- Directions (Q. Nos. 32-34) In these questions, select the missing number from the given responses.
- 32.
- |    |    |    |
|----|----|----|
| 9  | 7  | 4  |
| 5  | 4  | 3  |
| 6  | 8  | ?  |
| 49 | 52 | 25 |
- 33.
- |    |    |    |
|----|----|----|
| 4  | 10 | 22 |
| 8  | 5  | 14 |
| 10 | 3  | ?  |
- (a) 13 (b) 14  
(c) 11 (d) 12
- 34.
- |    |   |    |
|----|---|----|
| 2  | 3 | 4  |
| 3  | 4 | 5  |
| 13 | ? | 41 |
- (a) 31 (b) 46  
(c) 23 (d) 25
35. Some statements are given followed by two Conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statements. Indicate your answer.  
**Statements**  
All files are papers.  
Some papers are books.  
Some books are journals.  
**Conclusions**  
I. All files are journals.  
II. All books are not journals.  
(a) Both Conclusions I and II follow  
(b) Neither Conclusion I nor II follows  
(c) Only Conclusion I follows  
(d) Only Conclusion II follows
36. Pratap starts from school and walks 7 km towards East. He takes a left and walks 4 km, then takes a right and walks 2 km, again takes a right and walks 3 km. Which direction is he facing now?  
(a) South (b) North  
(c) East (d) West
37. Vijay travelled 12 km Southward, then turned right and travelled 10 km, then turned right and



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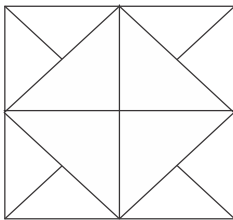
travelled 12 km. How far was Vijay from the starting point?

- (a) 22km (b) 44km  
 (c) 12km (d) 10km

38. Fertilizer consumption in India in 1984-85 was 8.21 MT. By 1990 it was 13.75 MT and by 2000 it was expected to reach 16 MT. What conclusion can you draw from this data?

- (a) Fertilizer consumption does not show any trend  
 (b) There is a steady increase of the fertilizer consumption  
 (c) Fertilizer consumption is steady  
 (d) There is a steady decrease in the fertilizer consumption.

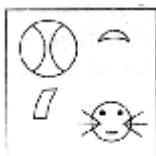
39. How many triangles are there in the given figure?



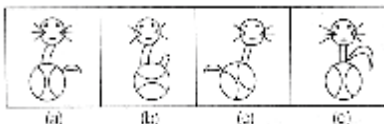
- (a) 18  
 (b) 20 or more  
 (c) 12  
 (d) 16

40. Among the four answer figures, which figure can be formed the cut-pieces given below in the question figure?

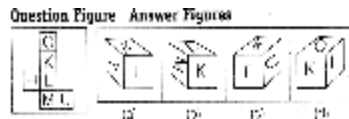
**Question Figure**



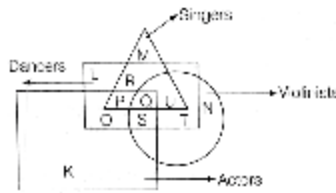
**Answer Figures**



41. Choose the cube which will be formed on folding the given question figure.



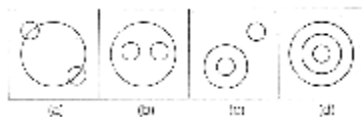
42. In the given figure, which letter represents those Actors who are also Dancers, Singers as well as Violinists?



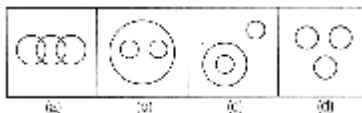
- (a) S (b) Q  
 (c) P (d) U

Directions (Q. Nos. 43 and 44) In the following questions, identify the diagram that best represents the relationship among the classes given below.

43. Factory, Machinery, Product



44. Travellers, Train, Bus

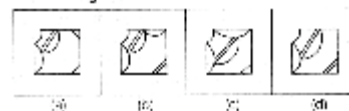


Directions (Q. Nos. 45 and 46) In these questions, which answer figure will complete the pattern in the question figure?

45. **Question Figure**



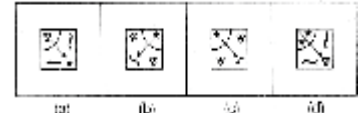
**Answer Figures**



46. **Question Figure**



**Answer Figures**

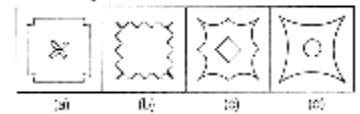


47. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

**Question Figures**

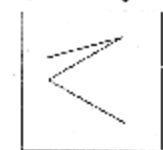


**Answer Figures**

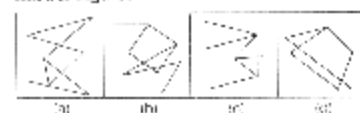


48. From the given answer figures, select the one in which the question figure is hidden/embedded.

**Question Figure**



**Answer Figures**



49. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of



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Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column. e.g., 'E' can be represented by 02, 43, 68 etc., and 'N' can be represented by 21, 65, 95 etc. Similarly, you have to identify the number set for the word given below.

**Cost**

Matrix I					Matrix II							
0	Δ	1	2	3	4	5	E	6	7	8	9	
0	R	V	E	A	C	5	R	E	O	N	G	
1	H	O	K	B	S	6	N	P	V	F	S	
2	M	N	F	S	I	7	V				U	N
3	C			I	A	8	E	A	U	C		
4	N	S	K	E	P	9	N	T	A	R	S	

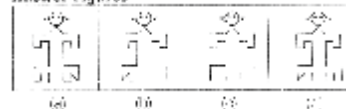
- (a) 04, 30, 31, 41  
 (b) 88, 57, 69, 32  
 (c) 04, 11, 41, 76  
 (d) 88, 78, 99, 89
50. If a mirror is placed on the line MN, then which of the answer figures is

the image of the question figure?

**Question Figure**



**Answer Figures**



## GENERAL AWARENESS

51. The famous economist Thomas Robert Malthus, in his views regarding population, is  
 (a) optimistic  
 (b) partly optimistic and partly pessimistic  
 (c) pessimistic  
 (d) None of the above
52. Non-insurable or uncertainty risk is  
 (a) change in fashion  
 (b) fire  
 (c) flood  
 (d) change in the price of that commodity
53. 'Gold Bullion Standard' refers to  
 (a) gold coin as an unlimited legal tender  
 (b) gold as the measure of value  
 (c) free coinage of gold  
 (d) no restriction on import and export of gold
54. Laws made by the executive are called  
 (a) Delegated Legislation  
 (b) Preferred Legislation  
 (c) Rule of Law  
 (d) Administrative Law
55. The word 'Oikonomia' means  
 (a) Household Management  
 (b) Individual Management  
 (c) Political Management  
 (d) Fiscal Management
56. The word 'Economics' is taken from which language?  
 (a) French (b) Greek  
 (c) German (d) English
57. Which of the following is a merit of the presidential form of government?  
 (a) The fixed tenure of the executive gives it a great sense of stability  
 (b) It ensures speedy execution of policies  
 (c) It safeguards the liberty of the people  
 (d) All of the above
58. The two chambers of the Swiss Federal Assembly are called  
 (a) National Council and Council of States  
 (b) House of Lords and House of Commons  
 (c) Senate and House of Representatives  
 (d) None of the above
59. Name the Italian traveller who visited the Vijayanagar empire in 1420 AD  
 (a) Domingos Paes  
 (b) Edoardo Barbosa  
 (c) Nicolo de Conti  
 (d) Abdur Razzag
60. Which one of the following dynasties established an independent rule in Bijapur?  
 (a) Imad Shahi (b) Nizam Shahi  
 (c) Qutb Shahi (d) Adil Shahi
61. Who regarded the second chamber as needless, useless and worse?  
 (a) Laski (b) MacIver  
 (c) Bentham (d) Seeley
62. The tenure of the Swiss President is  
 (a) 3 yr (b) 2 yr  
 (c) 4 yr (d) 1 yr
63. Haemolymph is observed in  
 (a) Arthropods  
 (b) Echinoderms  
 (c) Ascaris (d) Annelids
64. The virus without capsid but only with nucleic acids is called  
 (a) Capsomere (b) Nucleoid  
 (c) Prion (d) Virion
65. The immunity caused by the B-lymphocytes is called  
 (a) Sterile immunity  
 (b) Acquired Immunity  
 (c) Cellular Immunity  
 (d) Humoral Immunity
66. Who among the following enjoyed the patronage of Sultans from Balban to Ghiyas-ud-din Tughlaq?  
 (a) Ibn Batutah  
 (b) Badauni  
 (c) Zia-ud-din Barani  
 (d) Amir Khusrow



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67. The Sufi movement originally started from  
 (a) Persia (b) Delhi  
 (c) Lahore (d) Kabul
68. Humayun was driven out of Hindustan in 1540 AD after the battle of  
 (a) Chausa (b) Dourah  
 (c) Surajgarh (d) Kannauj
69. Poly metallic nodules (also called manganese nodules) are found in concentrations  
 (a) on continental shelves  
 (b) in deep ocean beds  
 (c) on lake beds  
 (d) in beach sands
70. Spot the odd item in the following  
 (a) Meander (b) Delta  
 (c) Bolson (d) Ox-bow lake
71. Kandla port is located at  
 (a) Gulf of Khambat  
 (b) Kori Creek  
 (c) Gulf of Kutch  
 (d) None of these
72. Which of the following forests grows in waterlogged areas?  
 (a) Mangrove (b) Evergreen  
 (c) Deciduous (d) Coniferous
73. Nag Tiba and Mahabharat ranges are included in  
 (a) Sub-Himalayas  
 (b) Trans-Himalayas  
 (c) Greater Himalayas  
 (d) Lesser Himalayas
74. Pink mould is the common name for  
 (a) Aspergillus  
 (b) Rhizopus  
 (c) Neurospora  
 (d) Mucor
75. The sleeping sickness is caused by  
 (a) Escherichia  
 (b) Neisseria  
 (c) Entamoeba  
 (d) Trypanosoma
76. Combustion is a  
 (a) physical and chemical process  
 (b) biological process  
 (c) physical process  
 (d) chemical process
77. Which of the following is not a form of carbon?  
 (a) Soot (b) Hematite  
 (c) Graphite (d) Charcoal
78. What is Dry Ice?  
 (a) Solid carbon dioxide  
 (b) Liquid nitrogen  
 (c) ice cubes and saw dust  
 (d) Ice cubes and salt
79. The gas commonly used in advertisement sign-boards and decorative lights is  
 (a) nitrogen (b) chlorine  
 (c) hydrogen (d) neon
80. Flow of blood in dorsal blood vessel of earthworm is  
 (a) sideward (b) downward  
 (c) backward (d) forward
81. Which of the following is biodegradable?  
 (a) Leather belts  
 (b) Silver foil  
 (c) Iron nails (d) Plastic mugs
82. Fungi that grow on bark are said to be  
 (a) Xyophilous  
 (b) Saxicolous  
 (c) Coprophilous  
 (d) Corticolous
83. To an astronaut in space the sky will appear to be  
 (a) violet (b) red  
 (c) blue (d) black
84. On a rainy day, small oily films on water show brilliant colours. This is due to  
 (a) scattering (b) dispersion  
 (c) refraction (d) polarisation
85. Natural radioactivity was discovered by  
 (a) Rutherford (b) Marie Curie  
 (c) Henri Becquerel  
 (d) Enrico Fermi
86. Rainbow formation is due to  
 (a) absorption of sunlight by water droplets  
 (b) diffusion of sunlight through water droplets  
 (c) ionisation of water droplets  
 (d) refraction and reflection of sunlight by water droplets
87. CAD stands for  
 (a) Computer Automatic Design  
 (b) Computer Aided Decode  
 (c) Computer Automatic Decode  
 (d) Computer Aided Design
88. Unix operating system is generally known as  
 (a) Multi User Operating System  
 (b) General Application  
 (c) Single User Operating System  
 (d) Single User Application Program
89. Who holds the world record as the youngest person to climb Mount Everest?  
 (a) Santosh Yadav  
 (b) Phu Dorjee  
 (c) Bachendri Pal  
 (d) Dicky Dolma
90. Hyperplasia means  
 (a) abnormal increase in number of cells  
 (b) an increase in size of a cell  
 (c) excessive motility of muscle  
 (d) voracious eating
91. The part of root involved in water absorption is  
 (a) zone of elongation  
 (b) zone of root cap  
 (c) zone of cell division  
 (d) zone of root hairs
92. Who is the Prime Minister of Australia?  
 (a) Tony Abbott  
 (b) Kevin Rudd  
 (c) Julia Gillard  
 (d) None of these
93. Which of the parent country of mobile giant 'Nokia'?  
 (a) Finland (b) Sweden  
 (c) Spain (d) Germany
94. Where was the Joint G-20 Finance and Labour Ministers Meeting held on July 19, 2013?  
 (a) New York (b) Paris  
 (c) Moscow (d) London
95. Which is the largest man-made lake?  
 (a) Baikal (b) Wullar  
 (c) Govind Sagar  
 (d) Rana Pratap Sagar



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96. Who took oath as the President of Iran on August 4, 2013?  
 (a) Hassan Rouhani  
 (b) Mohammad Bashir Ahmad  
 (c) Mohammad Bagher Ghalibaf  
 (d) Mahmoud Ahmadinejad
97. Who was sworn-in as the United States Ambassador to the United Nations by Joe Biden on August 1, 2013?  
 (a) Rosemary DiCarlo  
 (b) Samantha Power  
 (c) Zalmay Khalizad  
 (d) Susan Rice
98. Who won the Rogers Cup women's singles in lawn tennis in 2013?  
 (a) Victoria Azarenka  
 (b) Agnieszka Radwanska  
 (c) Maria Sharapova  
 (d) Serena Williams
99. Who was appointed as the Chairperson of the National School of Drama on August 19, 2013?  
 (a) Adly Mansour  
 (b) Sasikumar Venkat  
 (c) Amal Allana  
 (d) Ratan Thiyam
100. To which channel did the International Olympic Committee sell the broadcasting rights for 2014 and 2016 Olympics?  
 (a) Set Max  
 (b) Zee sports  
 (c) STAR India  
 (d) Doordarshan

## QUANTITATIVE APTITUDE

101. Subhash can copy 50 pages in 10 h; Subhash and Prakash can copy 300 pages in 40 h. In how much time can Prakash copy 30 pages?  
 (a) 12 h (b) 9 h  
 (c) 13 h (d) 10 h
102. Rajesh is in-charge of buying bread rolls and buns for a party. There are 10 buns in each box of buns and 8 bread rolls in each box of bread rolls. Rajesh wants to buy exactly the same number of buns and bread rolls. What is the smallest number of boxes he should buy for buns alone?  
 (a) 10 (b) 8 (c) 4 (d) 5
103. Simplify  

$$\sqrt{1 + \left(\frac{x^4 - 1}{-2x^2}\right)^2}$$
 (a)  $\frac{x^4 + 1}{2x^2}$  (b)  $\frac{\sqrt{x^2 + 1}}{2x^2}$   
 (c)  $\frac{x^4 + 2x^2 - 1}{2x^2}$   
 (d)  $\frac{x^4 - 1}{2x^2}$
104. If a job is to be completed in 10 days, it requires 270 persons. If 180 persons take up the same job, they will finish it in  
 (a) 27 days (b) 12 days  
 (c) 15 days (d) 18 days
105. A certain number of men can finish a piece of work in 100 days. However, if there were 10 men less, then it would take 10 days more for the work to be finished. How many men were there originally?  
 (a) 110 (b) 75 (c) 50 (d) 100
106. A square lawn has path 4 m wide around it. If the area of the path is 196 m<sup>2</sup>, then each side of the lawn is  
 (a) 7.25 m (b) 9.25 m  
 (c) 8.25 m (d) 8 m
107. A cloth merchant has announced 25% rebate on marked price. If one needs to have a rebate of Rs. 40, then how many shirts, each with a marked price of Rs. 32, should he purchase?  
 (a) 7 (b) 8 (c) 5 (d) 6
108. One dozen pairs of socks quoted at Rs. 160 are available at a discount of 10%. Find how many pairs of socks can be bought for Rs. 60.  
 (a) 6 pairs (b) 8 pairs  
 (c) 5 pairs (d) 7 pairs
109. A machine is marked at Rs. 7500 for sale. The shopkeeper allows successive discounts of 8%, 5% and 2% on it. The net selling price (in Rs.) is  
 (a) 6427.50 (b) 6415.40  
 (c) 6400.30 (d) 6423.90
110. The surface area of two spheres are in the ratio 4 : 9. What is the ratio of their volumes?  
 (a) 8 : 27 (b) 16 : 81  
 (c) 2 : 3 (d) 4 : 9
111. On increasing the diameter of a circle by 75%, the percentage increase in the perimeter is  
 (a) 75% (b) 80%  
 (c) 65% (d) 70%
112. If the perimeter of an equilateral triangle is 42 cm, its area, (in sq cm) will be  
 (a)  $24\sqrt{3}$  (b)  $49\sqrt{3}$   
 (c)  $7\sqrt{3}$  (d)  $14\sqrt{3}$
113. If  $x + \frac{1}{x} = 1$ , ( $x \neq 0$ ), then the value of  $\frac{x^2 + 3x + 1}{x^2 + 7x + 1}$  is  
 (a) 1 (b) 2 (c) 0 (d)  $\frac{1}{2}$
114. If  $a + b + c = 0$ , find the value of  

$$\frac{1}{a^3} + \frac{1}{b^3} + \frac{1}{c^3} + \frac{1}{(a+b)^3} + \frac{1}{(b+c)^3} + \frac{1}{(c+a)^3}$$



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- (a) -1 (b) 3abc  
(c) 1 (d) 0
115. If  $x + y = 4$  and  $\frac{1}{x} + \frac{1}{y} = 4$ , then the value of  $x^3 + y^3$  is  
(a) 52 (b) 64 (c) 4 (d) 25
116.  $(a^2 + 2a)^2 + 12(a^2 + 2a) - 45$  can be expressed as  
(a)  $(a - 1)(a - 3)(a^2 + 2a + 15)$   
(b)  $(a - 1)(a + 3)(a^2 + 2a + 15)$   
(c)  $(a + 1)(a + 3)(a^2 + 2a + 15)$   
(d)  $(a + 1)(a - 3)(a^2 + 2a + 15)$
117. The ratio of the first and second class fares between two stations is 4 : 1 and that of the number of passengers travelling by the first and second class is 1 : 40. If Rs. 11000 is collected as total fare, then the amount collected from the first class passengers is  
(a) Rs. 1375 (b) Rs. 3150  
(c) Rs. 800 (d) Rs. 1000
118. The average age of three boys is 15 yr. If their ages are in the ratio of 3 : 5 : 7, then the age of the youngest boy (in yr) is  
(a) 18 (b) 21 (c) 9 (d) 15
119. Of three numbers, the first is twice the second and the second is thrice the third. If the average of the three numbers is 10, then the largest number is  
(a) 12 (b) 18 (c) 30 (d) 15
120. A man purchased a car for Rs. 135000 and spent Rs. 25000 on repairs. At what price was the car sold if he suffered 10% loss on it?  
(a) Rs. 176000 (b) Rs. 144000  
(c) Rs. 121500 (d) Rs. 150000
121. In the certain examination, 77% candidates passed in English and 34% failed in Mathematics. If 13% failed in both the subjects and 784 candidates passed in both the subjects, then the total number of candidates was  
(a) 1600 (b) 1800  
(c) 1200 (d) 1400
122. A train 120 m long runs through a station at the speed of 54 km/h. The time taken by the train to pass a man standing on the platform  
(a) 7s (b) 8s  
(c) 5s (d) 6s
123. A, B and C start together from the same point to travel around a circular island 30 km in circumference. A and B are travelling in the same direction and C is in the opposite direction. If A travels 5 km, B travels 7 km and C travels 8 km in an hour, then they all come together again after  
(a) 25h (b) 30h  
(c) 15h (d) 20h
124. At what rate will a sum of Rs. 1000 amount to Rs. 1102.50 in 2 yr at compound interest?  
(a) 6% (b) 6.5%  
(c) 5% (d) 5.5%
125. Radii of two circles are 6.3 cm and 3.6 cm. If they touch each other internally, then the distance between their centres is  
(a) 9.1 cm (b) 2.7 cm  
(c) 3.7 cm (d) 10.1 cm
126. There is a circle of radius 5 cm and the perpendicular distance from the centre of the circle to the chord of the circle is 3 cm. Then, the length of the chord is  
(a) 6 cm (b) 5 cm  
(c) 8 cm (d) 4 cm
127. In a  $\triangle ABC$ ,  $\angle A = 20^\circ$ ,  $\angle B = \angle C = 32^\circ$ . Then, the  $\angle A$  is  
(a)  $84^\circ$  (b)  $90^\circ$   
(c)  $75^\circ$  (d)  $80^\circ$
128. The bisector of  $\angle BAC$  of  $\triangle ABC$  cuts BC at D and the circumcircle of the triangle at E. If  $DE = 3$  cm,  $AC = 4$  cm and  $AD = 5$  cm, then the length of AB is  
(a) 9 cm (b) 10 cm  
(c) 7 cm (d) 8 cm
129. In two  $\triangle ABC$  and  $\triangle PQR$ ,  $\overline{BC} = \overline{QR}$ ,  $\overline{AB} = \overline{PQ}$  and extended m  $\angle ABC = 120^\circ$  and extended m  $\angle PQS = 120^\circ$ . Then, by which condition are the two triangles congruent?  
(a) Side - Angle - Side  
(b) Angle - Side - Side  
(c) Angle - Side - Angle  
(d) Side - Side - Side
130. If an equilateral triangle ABC is inscribed in a circle with centre at O, then  $\angle BOC$ ,  $\angle COA$  and  $\angle AOB$  are respectively  
(a)  $50^\circ, 60^\circ, 70^\circ$   
(b)  $120^\circ, 120^\circ, 120^\circ$   
(c)  $60^\circ, 60^\circ, 60^\circ$   
(d)  $80^\circ, 120^\circ, 160^\circ$
131. If  $x = 3 + 2\sqrt{2}$ , then the values of  $x^3 + \frac{1}{x^3}$  and  $x^3 - \frac{1}{x^3}$  are respectively  
(a)  $140\sqrt{2}, 198$  (b) 234, 216  
(c) 216, 234 (d)  $198, 140\sqrt{2}$
132. Given that  $a + b + c = 2$  and  $ab + bc + ca = 1$ , then the value of  $(a + b)^2 + (b + c)^2 + (c + a)^2$  is  
(a) 10 (b) 16  
(c) 6 (d) 8
133. If  $x^2 + 4x + 3 = 0$ , then the value of  $\frac{x^3}{x^6 + 27x^3 + 27}$  is  
(a) -1 (b)  $-\frac{1}{2}$   
(c) 1 (d)  $\frac{1}{2}$
134. Find the area of the triangle formed by the graph  $F = \frac{9C}{5} + 32$  with the F-axis and C-axis.  
(a)  $\frac{2760}{9}$  sq unit  
(b)  $\frac{2760}{9}$  sq unit  
(c)  $\frac{2860}{9}$  sq unit  
(d)  $\frac{2560}{9}$  sq unit



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135. If in a  $\Delta ABC$ , AB is smaller than AC, then  $AC - AB$  is

- (a) =BC (b)  $< \frac{1}{2}AC$   
 (c) <BC (d) >BC

136.  $\sqrt{\frac{1+\sin q}{1-\sin q}}$  is equal to

- (a)  $\sec \theta + \tan \theta$   
 (b)  $\sec \theta - \tan \theta$   
 (c)  $\operatorname{cosec} \theta + \cot \theta$   
 (d)  $\operatorname{cosec} \theta - \cot \theta$

137. If  $\tan \theta = \frac{3}{4}$  and  $0 < \theta < \frac{\pi}{2}$  and  $25x \sin 2\theta \cos \theta = \tan 2\theta$ , then the value of x is

- (a)  $\frac{7}{64}$   
 (b)  $\frac{9}{64}$   
 (c)  $\frac{3}{64}$   
 (d)  $\frac{5}{64}$

138. A kite flying at a height of 45 m from the level ground is attached to string inclined to the horizontal at  $60^\circ$ . The length of the string is

- (a)  $\frac{30}{\sqrt{2}}$  m  
 (b)  $30\sqrt{5}$  m  
 (c)  $30\sqrt{3}$  m  
 (d)  $30\sqrt{2}$  m

139. If a  $\sec \theta = x$  and  $b \tan \theta = y$ , then how are x and y connected with a and b?

- (a)  $a^2x^2 - b^2y^2 = a^2b^2$   
 (b)  $b^2x^2 - a^2y^2 = a^2b^2$   
 (c)  $a^2x^2 + b^2y^2 = a^2b^2$   
 (d)  $b^2x^2 + a^2y^2 = a^2b^2$

140.  $\frac{\tan A + \tan B}{\cot A + \cot B}$  is equal to

- (a)  $\cot A \cot B$   
 (b)  $\sec A \operatorname{cosec} B$   
 (c)  $\tan A \tan B$   
 (d) None of these

141. The angle subtended at the centre of a circle by an arc length equal in length to the radius of the circle is defined as

- (a) one radian  
 (b) 90 degrees  
 (c) one grade  
 (d) one degree

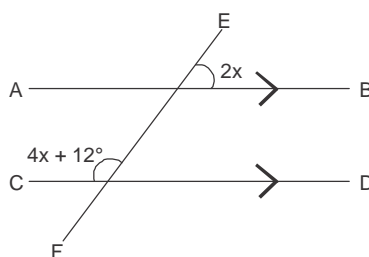
142. If  $\sin x + \sin^2 x = 1$ , then the value of  $\cos^2 x + \cos^4 x$  is

- (a) 2  
 (b) 2.5  
 (c) 1  
 (d) 1.5

143. The value of a sector in a pie-chart is equal to

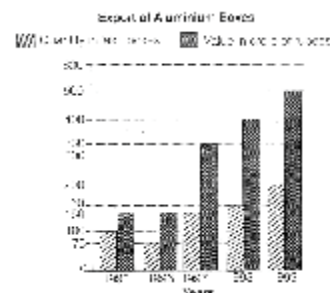
- (a)  $\frac{\text{Angle of the sector}}{360^\circ} \times 100$   
 (b)  $\frac{\text{Angle of the sector}}{360^\circ} \times \text{Total value of the data}$   
 (c)  $\frac{\text{Angle of the sector}}{180^\circ} \times \text{Total value of the data}$   
 (d)  $\frac{\text{Angle of the sector}}{180^\circ} \times 100$

144. In the figure,  $AB \parallel CD$  and EF intersects them. Then, the value of x is



- (a)  $18^\circ$  (b)  $14^\circ$   
 (c)  $28^\circ$   
 (d)  $24^\circ$

Directions (Q. Nos. 145-150) Study the following chart and answer the questions given below the chart.



145. If in the year 1998, the boxes were exported at the same rate per box as that in 1997, what would be the value (in crore of Rs.) of export in 1998?

- (a) 330 (b) 400  
 (c) 352 (d) 375

146. What is the difference between boxes (in lakh) exported in the years 1996 and 1997?

- (a) 50  
 (b) 25  
 (c) 100  
 (d) None of these

147. In which year was the value per aluminium box the minimum?

- (a) 1996  
 (b) 1998  
 (c) 1999  
 (d) 1995

148. What is the difference (in lakh) between the boxes exported in the years 1997 and 1998?

- (a) 100000  
 (b) 1000000  
 (c) 10  
 (d) 1000

149. What was the approximate percentage increase in export value from the years 1995 to 1999?

- (a) 375  
 (b) 200  
 (c) 333.3  
 (d) None of these

150. What was the percentage drop in export quantity from the years 1995 to 1996?

- (a) 75  
 (b) 25  
 (c) 50  
 (d) None of these



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## ENGLISH COMPREHENSION

Directions (Q.Nos. 151-155) In the following questions, some parts of the sentence have errors and some are correct. Find out which part of a sentence has an error. If a sentence is free from error, mark (d) as your answer.

151. With our great annoyance (a)/we found the ground (b)/filled with broken glasses. (c)/No error (d)
152. The new device (a)/aims at eliminating (b)/the risk of short-circuiting. (c)/No error (d)
153. I wish to heartily (a)/congratulate you for (b)/your astounding success. (c)/No error (d)
154. The visitor took the vacant seat (a)/next from mine (b)/one of the many huge sofas in the room. (c)/No error (d)
155. He was (a)/a learnt man among lords, (b)/and a lord among learned men. (c)/No error (d)

Directions (Q.Nos. 156-160) In the following questions sentences are given with blanks to be filled in with an appropriate word (s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

156. The book provides an overview of European wines that should prove inviting to both the virtual ..... and the experienced connoisseur.  
 (a) prodigal (b) novice  
 (c) zealot (d) glutton
157. The Sun is shining brightly, please ..... the light.  
 (a) put off (b) put out  
 (c) take off (d) put on
158. This practice was brought ..... to prevent certain abuses.  
 (a) about (b) in  
 (c) down (d) off
159. This package was supposed ..... yesterday.  
 (a) to have been delivered

- (b) to deliver  
 (c) to be delivering  
 (d) not to be delivered
160. Her true feelings manifested themselves in her sarcastic remarks, only then was her ..... revealed.  
 (a) sweetness (b) bitterness  
 (c) sarcasm (d) charm

Directions (Q.Nos. 161-163) In the following questions out of the four alternatives, choose the one which best expresses the meaning of the given word.

161. Brutalize  
 (a) Devise (b) Strike  
 (c) Stir (d) III-treat
162. Pinnacle  
 (a) Summit (b) Pit  
 (c) Capusle (d) Heart
163. Garble  
 (a) Communicate  
 (b) Explain  
 (c) Confuse  
 (d) Hide

Directions (Q.Nos. 164-166) In the following questions choose the word opposite in meaning to the given word.

164. Seamy  
 (a) Unpleasant  
 (b) Sincere  
 (c) Honest  
 (d) Pure
165. Cease  
 (a) Confront  
 (b) Confiscate  
 (c) Abandon  
 (d) Initiate
166. Denounce  
 (a) Grant  
 (b) Praise  
 (c) Signify  
 (d) Confirm

Directions (Q.Nos. 167-171) In the following questions four alternatives are

given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

167. Ask Mr. Das. He can give you all the news you need. He is always in the swim.  
 (a) in search of news  
 (b) well-informed and upto date  
 (c) giving news to others  
 (d) at the swimming pool
168. You have been trying to solve this puzzle for a long time, be careful, so that you avoid barking up the wrong tree.  
 (a) keep working constantly  
 (b) climbing the wrong tree  
 (c) trying to solve problems  
 (d) trying to find something at a wrong place
169. I'll be able to do my job very well when I know the ropes.  
 (a) learn the procedures  
 (b) gain confidence  
 (c) become bolder  
 (d) work in silence
170. The secretary's thoughtless remark added fuel to the fire.  
 (a) helped in improving the situation  
 (b) prevented the situation  
 (c) added humour to the situation  
 (d) worsened the difficult situation
171. He could not get money from his master because he rubbed him up the wrong way.  
 (a) suggested a wrong method  
 (b) advised him to be strict  
 (c) Irked or irritated him  
 (d) asked him to speed up

Directions (Q.Nos. 172-181) In the following questions sentence /a part of the sentence is underlined. Below are given alternatives to the underlined part at (a), (b), (c) which may improve the



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sentence. Choose the correct alternative. In case no improvement is needed, your answer is (d).

172. The government representative furnished the reporters all details.  
 (a) provided the reporters all details  
 (b) furnished reporters all details  
 (c) furnished the reporters with all the details  
 (d) No improvement
173. It was raining so heavily yesterday that I could not move out for my usual walk.  
 (a) I could not go out for my usual walk  
 (b) I could not move for my usual walk  
 (c) I could not go to my usual walk  
 (d) No improvement
174. Ram filled ink into his pen before leaving for school.  
 (a) filled ink in his pen  
 (b) filled his pen with ink  
 (c) filled ink on his pen  
 (d) No improvement
175. The toys he bought for Suzy are too to be cheap.  
 (a) are so much good to be cheap  
 (b) are so good that to be cheap  
 (c) were so good to be cheap  
 (d) No improvement
176. I did one mistake in the dictation test today.  
 (a) I made a mistake in  
 (b) I did a mistake in  
 (c) I did a mistake at  
 (d) No improvement
177. John has been detained at a meeting.  
 (a) by the meeting  
 (b) on a meeting (c) in meeting  
 (d) No improvement
178. The butler was as devoted as a faithful dog.  
 (a) a faithful cat  
 (b) a faithful pet  
 (c) a faithful friend  
 (d) No improvement

179. He denied that he had not forged my signature.  
 (a) would not forge  
 (b) had forged  
 (c) did not forge  
 (d) No improvement
180. There is an error in grammar in the sentence.  
 (a) a written error  
 (b) a grammar error  
 (c) a grammatical error  
 (d) No improvement
181. To his astonishment and admiration, he got the information that it was only the picture of a curtain.  
 (a) found  
 (b) saw clearly  
 (c) received the information  
 (d) No improvement

Directions (Q.Nos. 182-188) In the following questions out of the four alternatives, choose the one which can be substituted for the given words/sentence.

182. Having a stale smell or taste.  
 (a) Savoury  
 (b) Tepid  
 (c) Rancid  
 (d) Insipid
183. A wooden object used for connecting animals that are pulling a vehicle.  
 (a) Whip  
 (b) Yoke  
 (c) Rein  
 (d) Leash
184. A man who knows a lot about things like food, music and art.  
 (a) Hostage  
 (b) Connoisseur  
 (c) Priest  
 (d) Optimist
185. A doctor who specializes in diseases of the nose.  
 (a) Pathologist  
 (b) Podiatrist  
 (c) Rhinologist  
 (d) Otologist
186. Study of caves.

- (a) Topology  
 (b) Numismatics  
 (c) Speleology  
 (d) Seismology
187. Government be the few.  
 (a) Monarchy  
 (b) Anarchy  
 (c) Oligarchy  
 (d) Autocracy
188. Materials that change naturally by the action of bacteria.  
 (a) Biological  
 (b) Biodegradable  
 (c) Inflammable  
 (d) Perishable

Directions (Q.Nos. 189 and 190) In the following questions four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

189. (a) Extirpate  
 (b) Extripate  
 (c) Exterpate  
 (d) Exitrpeit
190. (a) Intelligibility  
 (b) Inteligibility  
 (c) Inteligibility  
 (d) Inteligibility

Directions (Q.Nos. 191-200) You have two brief passages with five questions following each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives.

### Passage I

A crucial element that defines the soap opera is the open-ended nature of the narrative, with stories spanning several episodes. One of the defining features that makes a television program a soap opera, according to Albert Moran, is "that form of television that works with a continuous open narrative. Each episode ends with a promise that the storyline is to be continued in another episode."

In 2012, Robert. Lloyd of the Los Angeles Times wrote of daily dramas, "Although melodramatically eventful,



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soap operas such as this also have a luxury of space that makes them seem more naturalistic, indeed, the economics of the form demand long scenes and conversations that a 22-episodes-per-season weekly series might dispense with half a dozen lines of dialogue may be drawn out, as here, for pages. You spend more time even with the minor characters the apparent villains grow less a apparently villainous.

Soap opera storylines run concurrently, intersect and lead into further developments An individual episode of a soap opera will generally switch between several different concurrent "narrative threads that may at times interconnect and affect one another or may run entirely independent of each other. Evening soap operas and serials that run for only a part of the year tend to bring things to a dramatic end-of-season cliffhanger.

191. What does the author mean 'by the open -ended nature of soap operas?
- Every episode ends shruplty
  - Consecutive episodes nave no connection
  - Each episode ends with a promise that the storyline is to be continued in another episode
  - Every episode has a different story
192. A soap opera has the space for it to be more
- dramatic
  - tragic
  - artistic
  - naturalistic
193. The economics of a soap opera form demands for it to have
- melodramatic events
  - promising storylines
  - long scenes
  - luxurious space
194. An individual episode of a soap opera generally switches between
- successive intersections of events

- different concurrent narrative threads
  - more time spent with minor characters
  - apparent villains that grow less apparent villainous
195. Soap operas that run for a part of the year usually end in
- a cliffhanger
  - a sequence
  - a cliff
  - an episode

### Passage II

Two or three days and nights went by, I reckon I might say they swam by they slid along so quiet and smooth and lovely. Here is the way we put it in the time. It was a monstrous big river down there-sometimes a mile and a half wider we ran rights, and laid up and hid daytimes, soon as night was most gone we stopped navigating and tied up nearly always in the dead water under a towhead and then cut young cotton woods and willows and hid the roft with them-Then, we set out the lines. Next we slid into the river and had a swim, so as to freshen up and cool, off then we set down on the sandy bottom where the water was about knee deep and watched the daylight come. Not a sound anywhere-perfectly shill just like the whole word was asleep, only sometimes, the bullfrogs a clattering maybe. The first thing to see, looking away over the water, was a kind of dull line- that was the woods on other side, you couldn't make nothing else out, then a pale place in the sky, then more paleness spreading around, then the river softened up away off and warm black any more, but gray you could see little dark spots drifting along ever so far away-trading scowe and such things and long black streaks-rafts sometimes you could hear a sweep creaking, jumbled up voices, it was so still and sounds comes so far and by and by you could see a streak on the water which you know by the look of the

streak that there's snag there in a current which breaks on it and makes that streak look that way.

196. How did the days and nights go by, according to the writer?
- They slid along so smooth and soft and quietly
  - They slid along so quietly and smooth and softly
  - They slid along so quiet and smooth and lovely
  - They slid along so smooth and quietly
197. They stopped navigating
- at daytime
  - at dawn
  - at night
  - at dusk
198. After a swim in the moor they
- set down on the sandy shore and watched the daylight come
  - set down on the sandy bottom and watched the daylight come
  - set down on the sandy bottom where the water was about ankle deep and watched the daylight come
  - set down on the sandy bottom where the water was about knee deep and watched the daylight come
199. In the stillness of the night
- the whole world was asleep
  - a sweep creaking or jumbled up voices could be heard
  - sound come so far
  - the bullfrogs also were asleep
200. The streak on the water looks as it does because
- of a sang there in the swift current which breaks on it
  - the streak has been swept by the swift current
  - the swift current has broken the streak
  - the streak has been swept by the swift current to the shore



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## ANSWERS

1. (c)	2. (a)	3. (*)	4. (c)	5. (c)	6. (c)	7. (d)	8. (b)	9. (c)	10. (b)
11. (b)	12. (b)	13. (d)	14. (d)	15. (d)	16. (c)	17. (d)	18. (b)	19. (c)	20. (b)
21. (c)	22. (a)	23. (b)	24. (c)	25. (b)	26. (c)	27. (a)	28. (d)	29. (a)	30. (a)
31. (d)	32. (b)	33. (c)	34. (d)	35. (d)	36. (a)	37. (d)	38. (b)	39. (b)	40. (a)
41. (a)	42. (b)	43. (d)	44. (b)	45. (c)	46. (d)	47. (c)	48. (d)	49. (c)	50. (b)
51. (c)	52. (c)	53. (b)	54. (a)	55. (a)	56. (b)	57. (a)	58. (a)	59. (c)	60. (d)
61. (c)	62. (d)	63. (a)	64. (b)	65. (d)	66. (c)	67. (a)	68. (d)	69. (b)	70. (c)
71. (c)	72. (a)	73. (d)	74. (b)	75. (d)	76. (d)	77. (b)	78. (a)	79. (d)	80. (d)
81. (a)	82. (d)	83. (d)	84. (b)	85. (c)	86. (d)	87. (d)	88. (a)	89. (d)	90. (a)
91. (d)	92. (a)	93. (a)	94. (c)	95. (c)	96. (a)	97. (b)	98. (d)	99. (d)	100. (c)
101. (a)	102. (c)	103. (a)	104. (c)	105. (a)	106. (c)	107. (c)	108. (c)	109. (d)	110. (a)
111. (a)	112. (b)	113. (d)	114. (d)	115. (a)	116. (b)	117. (d)	118. (c)	119. (b)	120. (b)
121. (d)	122. (b)	123. (b)	124. (c)	125. (b)	126. (c)	127. (a)	128. (b)	129. (b)	130. (c)
131. (d)	132. (c)	133. (a)	134. (d)	135. (c)	136. (a)	137. (d)	138. (c)	139. (b)	140. (c)
141. (a)	142. (c)	143. (b)	144. (c)	145. (c)	146. (d)	147. (d)	148. (c)	149. (c)	150. (b)
151. (a)	152. (c)	153. (b)	154. (b)	155. (b)	156. (b)	157. (b)	158. (b)	159. (b)	160. (b)
161. (d)	162. (a)	163. (c)	164. (d)	165. (d)	166. (b)	167. (b)	168. (d)	169. (a)	170. (d)
171. (c)	172. (c)	173. (a)	174. (b)	175. (d)	176. (a)	177. (d)	178. (d)	179. (b)	180. (c)
181. (a)	182. (c)	183. (b)	184. (b)	185. (c)	186. (c)	187. (c)	188. (b)	189. (a)	190. (a)
191. (c)	192. (d)	193. (c)	194. (b)	195. (a)	196. (c)	197. (b)	198. (d)	199. (a)	200. (a)



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# SSC COMBINED GRADUATE LEVEL TIER-I EXAM

Held On: 21-04-2013 (2<sup>nd</sup> sitting)

## REASONING

**Directions:** In question nos. 1 and 2 which of the following interchange of signs would make the given equation correct?

- $10 + 10 \div 10 - 10 \times 10 = 10$   
(a) + and - (b) + and  $\div$   
(c) + and  $\times$  (d)  $\div$  and +
- $(8 - 8) + 8 \times 32 = 64$   
(a)  $\times$ , +, - (b) -,  $\div$ , +  
(c) +,  $\div$ , + (d) +,  $\div$ ,  $\times$
- If 'R' stands for '-', 'A' stands for '+', 'B' stand for ' $\div$ ' and 'C' stand for ' $\times$ ', then what is the value of the given equation? (BODMAS rule not be applicable)  
 $25 A 37 C 2 B 4 R 1 = ?$   
(a) 32 (b) 35  
(c) 30 (d) 27

**Directions:** In equation nos. 4 to 9, select the related letter/word/number from the given alternatives.

- Chisel : Sculptor :: Harrow : ?  
(a) Gardener (b) Mason  
(c) Blacksmith (d) Guard
- Moon : Satellite :: Earth : ?  
(a) Sun (b) Planet  
(c) Solar system (d) Round
- BJCI : JBIC :: CXDW : ?  
(a) JCDU (b) BCJU  
(c) EVFU (d) XCWD
- AB : NO :: LM : ?  
(a) OL (b) KP  
(c) PK (d) YZ

- AG : IO :: EK : ?  
(a) LR (b) MS (c) PV (d) SY
- 25 : 175 :: 32 : ?  
(a) 150 (b) 170  
(c) 162 (d) 160

**Directions:** In question nos. 10 to 15, select the one which is different from the other three responses.

- (a) Shimla (b) Darjeeling  
(c) Ooty (d) Agra
- (a) Foal (b) Hen  
(c) Lamb (d) Leveret
- (a) BADC (b) XWZY  
(c) VUST (d) NMPO
- (a) DCFG (b) FEHI  
(c) JILM (d) HGJL
- (a) (1, 0) (b) (2, 3)  
(c) (3, 8) (d) (4, 27)
- (a) (96, 24) (b) (39, 18)  
(c) (81, 54) (d) (82, 64)
- Which one of the given responses would be a meaningful order of the following words in ascending order?  
(1) Accomodation  
(2) Perception  
(3) Scheme formation  
(4) Assimilation  
(5) Sensation  
(a) 1, 2, 3, 5, 4 (b) 5, 2, 3, 4, 1  
(c) 5, 1, 4, 2, 3 (d) 5, 2, 4, 3, 1
- Which of the given responses would be a meaningful order of the following starting from the inner layer?

- (1) Hydrosphere  
(2) Atmosphere  
(3) Biosphere  
(4) Lithosphere  
(a) 4, 1, 3, 2  
(b) 2, 4, 3, 1  
(c) 3, 1, 2, 4 (d) 1, 2, 3, 4

**Directions:** In question nos. 18 to 21, a series is given, with one term missing. Chose the correct alternative from the given ones that will complete the series.

- EJO, FKP, GLQ, HMR, ?  
(a) ABC (b) DEF  
(c) MNO (d) INS
- BOCNDME??  
(a) LF (b) OP  
(c) KL (d) EF
- $7, 2 = 59; 5, 3 = 28; 9, 1 = 810; 2, 1 = 13; 5, 4 = ?$   
(a) 19 (b) 9  
(c) 20 (d) 239
- 120, 440, 960, 1680, ?  
(a) 2600 (b) 3240  
(c) 3040 (d) 2400

**Directions:** In question nos. 22 to 24, select the missing number from the given responses.

- |     |         |         |    |
|-----|---------|---------|----|
| 22. | 81      | 64      | 16 |
|     | 4       | 9       | 49 |
|     | 36      | 16      | 25 |
|     | 108     | 96      | ?  |
|     | (a) 230 | (b) 140 |    |
|     | (c) 120 | (d) 410 |    |



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23. 25 5 5  
 30 5 6  
 35 ? 5  
 (a) 5 (b) 4  
 (c) 6 (d) 7
24. 24 51 67  
 2 4 6  
 5 7 5  
 53 211 ?  
 (a) 135 (b) 235  
 (c) 347 (d) 407
25. G is fatter than H but not as fat as M. Q is also not as fat as M. Who is the most lean person in the group?  
 (a) Q (b) H  
 (c) G (d) M
26. A man walks 15 metres south. Then turning to his right he walks 15 metres. Then turning to his left, he walks 10 metres. Again turns to his left and walks 15 metres. How far is the from his initial position?  
 (a) 10m  
 (b) 25m  
 (c) 15m (d) 60m
27. There are five buses M, N, O, P, Q in the row on a road. Bus M is standing at the front and Q is standing at the back end. Bus N stands between M and O. Bus P stands between O and Q. Which bus is in the middle of the live?  
 (a) M (b) P (c) N (d) Q

**Directions:** In question nos. 28 to 30, from the given alternative words, select the words, select the word which cannot be formed using the letters of the given word.

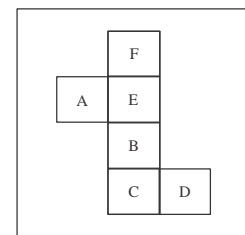
28. DISTANCE  
 (a) DANCE (b) STAND  
 (c) SANE (d) TEASE
29. RESURRECTIONIST  
 (a) TOURIST (b) NOISE  
 (c) SORCERER(d) TENDER
30. COMMERCIALISM  
 (a) CROME (b) LANCER  
 (c) MISER (d) OSCAR

31. If DIVINE is coded as AFSFKB, then POWERFUL is coded as  
 (a) XLHOJVIM(b) MLTBDCRI  
 (c) MLWBOCRI  
 (d) HLTBNCRI
32. If NOTE is written as PQVG, then LIME is written as  
 (a) VQOG (b) VKOG  
 (c) VOKG (d) VGKO
33. If SMART is coded as UKCPV, the WONDER is coded as  
 (a) YMPPRT (b) YMPBGP  
 (c) YMPBFP (d) YMBPPG
34. If '+' stands for 'multiplication', '<' stand for 'division', '÷' stands for 'subtraction', '-' stands for 'addition' and '×' stands for 'greater than' identify which expression is correct  
 (a)  $20 - 4 \div 4 + 8 < 2 \times 26$   
 (b)  $20 \times 8 + 15 < 5 \div 9 - 8$   
 (c)  $20 < 2 + 10 \div 4 - 6 \times 100$   
 (d)  $20 < 5 + 25 \div 10 - 2 \times 6$
35. One day, Nita left home and cycled 10 km southwards, turned right an cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. How many kilometers will she have to cycle to reach her home straight?  
 (a) 10km (b) 15km  
 (c) 20km (d) 25km
36. Rajat moves from his office to the canteen straight at a distance of 12 metres. Then he turned left and walked for 2 metres. Then he turns left again and walks straight for 12 metres. How far is he from his office?  
 (a) 10 metres (b) 12 metres  
 (c) 8 metres (d) 2 metres

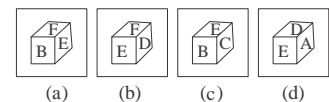
**Directions:** In question nos. 37 and 38, two/four statements are given followed by two/four conclusions I, II, III and IV. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

37. **Statements:**  
 I. All apples are bananas  
 II. All bananas are sweet.  
**Conclusions:**  
 I. Some apples are sweet.  
 II. Some bananas are apples.  
 (a) Conclusion I follows.  
 (b) Conclusion II follows.  
 (c) Either conclusion I or II follows.  
 (d) Both conclusions I and II follow.
38. **Statements:**  
 1. All metals are silver.  
 2. All silver are diamond.  
 3. Some diamonds are gold.  
 4. Some gold are marbles.  
**Conclusions:**  
 I. Some gold are metals.  
 II. All metals are diamond.  
 III. Some silver are marble.  
 IV. Some gold are silver.  
 (a) Only conclusion I follows.  
 (b) Only conclusion II follows.  
 (c) Only conclusion III follows.  
 (d) Only conclusion IV follows.
39. Which of the following cubes can be created by folding the given figure?

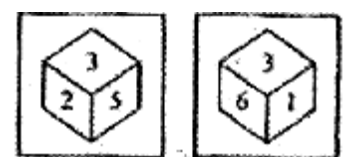
Question figure



Answer figures



40. Two positions of a dice are given. Which number would be at the top when bottom is 2?



- (a) 4 (b) 1 (c) 5 (d) 6



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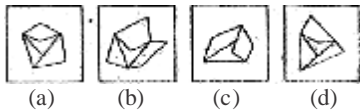


41. Identify the response figure from which the question figures pieces have been cut.

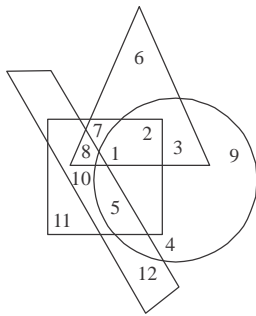
Question figures



Answer figures



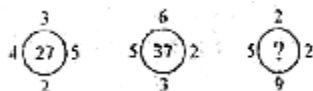
42.



In the above figure, the circle stands for employed, the square stands for social worker, the triangle stands for illiterate and the rectangle stands for truthful. Employed, truthful and illiterate social workers are indicated by which region?

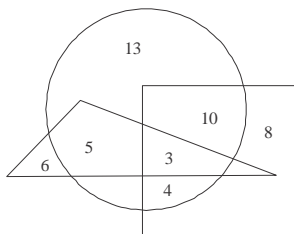
(a) 5 (b) 4 (c) 2 (d) 1

43. Find the missing number.



(a) 37 (b) 45 (c) 47 (d) 57

44.



In the above diagram, parallelogram represents women, triangle represent the sub-inspectors of police and circle

represents the graduates. Which numbered area represents women graduate sub-inspectors of police?

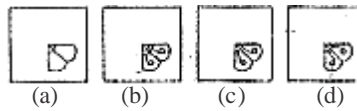
(a) 5 (b) 3 (c) 8 (d) 13

**Directions:** In question nos. 45 and 46, which answer figure will complete the pattern in the question figure?

45. Question Figure



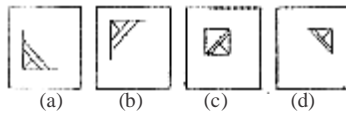
Answer Figures



46. Question Figure



Answer Figures

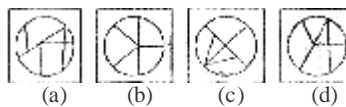


47. From the given answer figures, select the one in which the question figure is hidden embedded.

Question figure

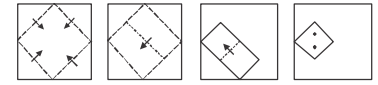


Answer figures

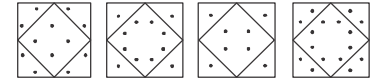


48. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question figures



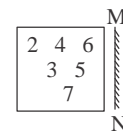
Answer figures



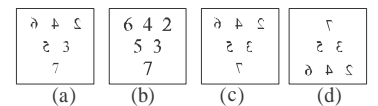
(a) (b) (c) (d)

49. Which of the answer figures is exactly the mirror image of the given pattern of numbers when the mirror is held at MN?

Question figure



Answer figures



50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'B' can be represented by 01, 31 etc. and 'P' can be represented by 67, 75 etc. Similarly, you have to identify the set for the word 'CARD'.

MATRIX I

	0	1	2	3	4
0	A	B	C	D	E
1	D	C	B	A	E
2	B	A	D	C	E
3	D	B	C	A	E
4	C	D	A	E	B

MATRIX II

	5	6	7	8	9
5	P	Q	R	S	T
6	Q	S	P	R	T
7	P	T	R	S	Q
8	Q	S	P	R	T
9	T	P	S	Q	R

(a) 32, 00, 56, 10  
 (b) 40, 21, 68, 44  
 (c) 11, 33, 57, 22  
 (d) 02, 42, 77, 20



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## GENERAL AWARENESS

51. Solids which conduct electricity at higher temperature but not at lower temperature are called  
(a) super-conductor  
(b) metallic-conductor  
(c) semi-conductor  
(d) insulator
52. Which one of the following has greatest mass?  
(a) electron (b) proton  
(c) neutron  
(d) hydrogen nucleus
53. A television channel characterised by  
(a) frequency of transmitted signal  
(b) velocity of transmitted signal  
(c) physical dimension of television screen  
(d) size of picture tube
54. The first computer mouse was built by  
(a) Douglas Engelbart  
(b) William English  
(c) Oaniel Coogher  
(d) Rober Zawacki
55. An organisation's profitability depends on  
(a) Quality of data processed  
(b) Quantity of data processed  
(c) Speed of processing the data  
(d) Both (A) and (C)
56. The density of water 1 g/cc. This is strictly valid at  
(a) 0°C (b) 4°C  
(c) 25°C (d) 100°C
57. The process of photosynthesis involves conversion of  
(a) chemical energy into radiant energy  
(b) chemical energy into mechanical energy  
(c) solar energy into chemical energy  
(d) mechanical energy into solar energy
58. A colloidal system in which a liquid is dispersed in a liquid is called  
(a) gel (b) emulsion  
(c) sol (d) precipitate
59. The antiseptic compound present in dettol is  
(a) Iodine (b) Enloroxylenol  
(c) Biothional (d) Cresol
60. As per the TRIPS Agreement-1994, a good originating from a region with specific character/quality/reputation is covered/to be protected under the IPR as  
(a) Patent  
(b) Trademark  
(c) Trade secret  
(d) GI (Geographical Indicator)
61. Which of the following crop cultivation is banned by the Hon'ble Supreme Court of India?  
(a) Lathyrus (Khesari)  
(b) Genetically modified brinjal  
(c) Bt cotton for export  
(d) Bt cotton for local use
62. Ice glacier's melting is a common phenomenon linked to the rise in seawater level. The glaciers are predominantly percent in  
(a) Greenland  
(b) Antarctica  
(c) Himalayas (d) Arctic
63. Who is known for establishing the "Anand Van"?  
(a) Jubilant Budha  
(b) H.N.Bahuguna  
(c) Baba Amte (d) Motilal Nehru
64. The civilian Airport of highest altitude is in  
(a) Tibet (b) Nepal  
(c) India (d) China
65. Genomic (DNA) studies in camel have been completed recently by the scientists of  
(a) South Africa (b) India  
(c) China (d) Pakistan
66. International Simon Bolivar Prize was recently awarded to Augn San Suu Kkyi by the government of  
(a) Mauritius (b) China  
(c) Venezuela (d) Cuba
67. BCCI conferred "Col. C. K. Naydu Lifetime Achievement Award" during 2012 to  
(a) Sachin Tendulkar  
(b) M.S. Dhoni  
(c) VVSLaxman  
(d) Sunil Gavaskar
68. Air quality depicting PM 2.5 is more hazardous to  
(a) Archaeological Monuments  
(b) National Parks  
(c) Botanical Gardens  
(d) Old Men and Women
69. Which of the following is not a fundamental right as per the Indian Constitution?  
(a) Right to Education  
(b) Right to Information  
(c) Right to Speech  
(d) Right to Life
70. Who is custodian of the Indian Constitution?  
(a) President of India  
(b) Chief Justice of India  
(c) Prime Minister of India  
(d) Chairman of Rajya Sabha
71. Piped Natural Gas (PNG) is used for  
(a) Mining (b) Welding  
(c) Anaesthesia (d) Cooking
72. Greenpark Stadium is in  
(a) Bangalore  
(b) Dehradun  
(c) Chandigarh (d) Kanpur
73. Rowlatt Act 1919 was enacted during the period of  
(a) Lord Chelmsford  
(b) Lord William  
(c) Lord Minto  
(d) Lord Bentinck
74. Panchayati Raj System was implemented first in the pair of states



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- (a) Andhra Pradesh and Rajasthan  
(b) Assam and Bihar  
(c) Arunachal Pradesh and Uttar Pradesh  
(d) Punjab and Chandigarh
75. Human Environment Conference-1972 was held at  
(a) Stockholm  
(b) Paris  
(c) Geneva (d) Australia
76. 'Gold' is mainly related to  
(a) Local market  
(b) National market  
(c) International market  
(d) Regional market
77. Bilateral monopoly refers to the market situation of  
(a) two sellers two buyers  
(b) own seller and two buyers  
(c) two sellers and one buyer  
(d) one seller and one buyer
78. The economist who believed that unemployment is impossible and that market mechanism has a built in regulatory system to meet any ups and downs  
(a) J.M. Keynes (b) Ohlin  
(c) J.B. Say (d) Galbraith
79. Constituent Assembly of India was formulated on the recommendation of  
(a) Wavel Plan  
(b) Cripps Mission  
(c) August Offer  
(d) Cabinet Mission
80. Which of the following is an essential element of the state?  
(a) Sovereignty  
(b) Government  
(c) Territory (d) All of these
81. Which has become a legal right under 44<sup>th</sup> Amendment?  
(a) Right to Education  
(b) Right to Property  
(c) Right to Judicial Remedies  
(d) Right to Work
82. By which Constitution Amendment Act, Right to Property ceased to remain a fundamental right?  
(a) 44<sup>th</sup> (b) 42<sup>nd</sup>  
(c) 43<sup>rd</sup> (d) 45<sup>th</sup>
83. Who said "Truth is the ultimate reality and it is God"?  
(a) Swamy Vivekananda  
(b) Rabindra Nath Taogre  
(c) M.K. Gandhi  
(d) Radhakrishnan
84. Which of the following tribes is associated with the "Tana Bhagat" movement?  
(a) Uraon (b) Munda  
(c) Santhal  
(d) Konda dora
85. Who founded the Naujawan Bharat Sabha?  
(a) B.C. pal  
(b) G Subramania Iyer  
(c) Sardar Bagat Singh  
(d) Rukmani Lakshmipath
86. The Narendra Mandal or Chamber of Princes was inaugurated in 1921 by  
(a) Lord Curzon  
(b) Lord Wellesley  
(c) Duke of Cannought  
(d) Duke of Wellington
87. Budha, Dhamma and Sangha together are known as  
(a) Triratna (b) Trivarga  
(c) Trisarga (d) Trimurti
88. Who was called Lichchavi Dauhitra?  
(a) Chandragupta I  
(b) Skandagupta  
(c) Kumaragupta  
(d) Samundragupta
89. Which hill station is called as the 'Queen of the Satpuras'  
(a) Pachmarhi (b) Nilgiri  
(c) Mahenderagiri (d) Cardamom
90. Which national highway connects Delhi and Kokata via Mathura and Varanasi?  
(a) NH4 (b) NH2  
(c) NH10 (d) NH6
91. The country where drip irrigation is more efficiently used is  
(a) India (b) Israel  
(c) Sri Lanka (d) England
92. Which of the following is an endangered species?  
(a) Black buck  
(b) Blue sheep  
(c) Gangetic dolphin  
(d) Mithun
93. Of the following man-made disasters, which is socially induced?  
(a) Debris Avalanche  
(b) Salt Waste Intrusion  
(c) Arson  
(d) Ozone depletion
94. Which one of the following endocrine gland is situated in the neck?  
(a) Pancreas  
(b) Thyroid  
(c) Pituitary  
(d) Adrenals
95. The seat of intelligence is situated in the  
(a) cerebrum  
(b) cerebellum  
(c) medulla  
(d) thalamus
96. What is the Normal Blood Volume in human adult?  
(a) One litre (b) Three litres  
(c) Five litres (d) Seven litres
97. The fasting blood glucose level in adults in mg/100 ml is  
(a) 200 (b) 160  
(c) 100 (d) 600
98. Entomology is the study of  
(a) Birds (b) Insects  
(c) Fossils (d) Fungi
99. Exobiology is a science that deals with  
(a) extinct forms  
(b) life in other planets  
(c) life in the outer space  
(d) life in marine habitat
100. In radio-communication, the signals emitted by transmitting antenna are reflected on  
(a) stratosphere  
(b) ozonosphere  
(c) ionosphere  
(d) troposphere



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## QUANTITATIVE APTITUDE

101. ABCD is a cyclic trapezium with  $AB \parallel DC$  and AB diameter of the circle. If  $\angle CAB = 30^\circ$  then  $\angle ADC$  is  
 (a)  $60^\circ$  (b)  $120^\circ$   
 (c)  $150^\circ$  (d)  $30^\circ$
102. ABC is a triangle. The bisectors of the internal angle  $\angle B$  and external angle  $\angle C$  intersect at D. If  $\angle BDC = 50^\circ$ , then  $\angle A$  is  
 (a)  $100^\circ$  (b)  $90^\circ$   
 (c)  $120^\circ$  (d)  $60^\circ$
103. AB is the chord of a circle with centre O and DOC is a line segment originating from a point D on the circle and intersecting AB produced at C such that  $BC = OD$ . If  $\angle BCD = 20^\circ$ , then  $\angle AOD = ?$   
 (a)  $20^\circ$  (b)  $30^\circ$   
 (c)  $40^\circ$  (d)  $60^\circ$
104. In a circle of radius 17 cm, two parallel chords of length 30 cm and 16 cm are drawn. If both the chords are on the same side of the centre, then the distance between the chord is  
 (a) 9 cm (b) 7 cm  
 (c) 23 cm (d) 11 cm
105. If  $\sin(A - B) = \frac{1}{2}$  and  $\cos(A + B) = \frac{1}{2}$  where  $A > B > 0$  and  $A + B$  is an acute angle, then the value of B is  
 (a)  $\frac{\pi}{6}$  (b)  $\frac{\pi}{12}$   
 (c)  $\frac{\pi}{4}$  (d)  $\frac{\pi}{2}$
106. The fifth term of the sequence for which  $t_1 = 1$ ,  $t_2 = 2$  and  $t_{n+2} = t_n + t_{n+1}$ , is  
 (a) 5 (b) 10  
 (c) 6 (d) 8
107. If  $(x + 7954 \times 7956)$  be a square number, then the value of 'x' is  
 (a) 1 (b) 16 (c) 9 (d) 4
108. A can do a piece of work in 12 days while Balone can do it in 15 days. With the help of C they can finish it in 5 days. If they are paid Rs. 960 for the whole work how much money A gets?  
 (a) 480 (b) 240  
 (c) 320 (d) 400
109. Ronal and Elan are working on an Assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan takes 5 hours to type 40 pages. How much time will they take working together on two different computers to type an assignment of 110 pages?  
 (a) 7 hrs. 30 min. (b) 8 hrs  
 (c) 8 hrs. 15 min. (d) 8 hrs. 25 min.
110. One man, 3 women and 4 boys can do a piece of work in 96 hours, 2 men and 8 boys can do it in 80 hours, 2 men and 3 women can do it in 120 hours. 5 men and 12 boys can do it in  
 (a)  $39\frac{1}{11}$  hours (b)  $42\frac{7}{11}$  hours  
 (c)  $43\frac{7}{11}$  hours (d) 44 hours
111. ABC is a right angled triangle, B being the right angle. Mid-points of BC and AC are respectively B' and A'. The ratio of the area of the quadrilateral AA'B'B to the area of the triangle ABC is  
 (a) 1:2 (b) 2:3  
 (c) 3:4 (d) None of the above
112. A square ABCD is inscribed in a circle of unit radius. Semicircles are described on each side as a diameter. The area of the region bounded by the four semicircles and the circle is  
 (a) 1 sq. unit (b) 2 sq. unit  
 (c) 1.5 sq. unit (d) 2.5 sq. unit
113. If the perimeters of a rectangle and a square are equal and the ratio of two adjacent sides of the rectangle is 1 : 2 then the ratio of the area of the rectangle and that of the square is  
 (a) 1:1 (b) 1:2  
 (c) 2:3 (d) 8:9
114. The interest on a certain sum of money is Rs. 22 and the discount on the same sum for the same time at the same rate is Rs. 20, find the sum.  
 (a) Rs. 220 (b) Rs 200  
 (c) Rs. 210 (d) Rs. 212
115. A retailer purchased radiosets at the rate of Rs. 400 each from a wholesaler. He raised the price by 30% and then allowed a discount of 8% on each set. His profit will be  
 (a) 19% (b) 78.4%  
 (c) 22% (d) 19.6%
116. A reduction in the price of apples enables a person to purchase 3 apples for Rs. 1 instead of Rs. 1.25. What is the % of reduction in price (approximately)?  
 (a) 20 (b) 25  
 (c) 30 (d)  $33\frac{1}{3}$
117. Rs. 700 is divided among A, B, C in such a way that the ratio of the amounts of A and B is 2 : 3 and that of B and C is 4 : 5. Find the amounts in Rs. each received, in the order A, B, C.  
 (a) 150, 250, 300  
 (b) 160, 240, 300  
 (c) 150, 250, 290  
 (d) 150, 240, 310
118. The ratio of monthly income of A, B is 6 : 5 and their monthly expenditures are in the ratio 4 : 3.



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- If each of them saves Rs. 400 per month, find the sum of their monthly incomes.  
 (a) 2300 (b) 2400  
 (c) 2200 (d) 2500
119. A and B have together three times what B and C have, while A, B, C together have thirty rupees more than that of A. If B has 5 times that of C, then A has  
 (a) Rs. 60 (b) Rs. 65  
 (c) Rs. 75 (d) Rs. 45
120. A cricket player after playing 10 tests scored 100 runs in the 11<sup>th</sup> test. As a result, the average of his runs is increased by 5. The present average of runs is  
 (a) 45 (b) 40  
 (c) 50 (d) 55
121. A fruit seller buys some oranges at the rate of 4 for Rs. 10 and an equal number more at 5 for Rs. 10. He sells the whole lot at 9 for Rs. 20. What is his loss or gain per cent?  
 (a) Loss percent  $1\frac{19}{81}\%$   
 (b) Gain percent  $1\frac{19}{81}\%$   
 (c) No loss or no profit  
 (d) Loss per cent 2%
122. 15 litres of a mixture contains alcohol water in the ratio 1 : 4. If 3 litres of water is mixed in it, the percentage of alcohol in the new mixture will be  
 (a) 15 (b)  $16\frac{2}{3}$   
 (c) 17 (d)  $18\frac{1}{2}$
123. A man rides at the rate of 18 km/hr, but stop for 6 mins. To change horses at the end of every 7<sup>th</sup> km. The time that he will take to cover a distance of 90 km is  
 (a) 6 hrs.  
 (b) 6 hrs. 12 min.  
 (c) 6 hrs. 18 min.  
 (d) 6 hrs. 24 min.
124. A man rows down a river 15 km in 3 hrs. with the stream and returns in  $7\frac{1}{2}$  hrs. The rate at which he rows in still water is  
 (a) 2.5 km/hr  
 (b) 1.5 km/hr  
 (c) 3.5 km/hr  
 (d) 4.5 km/hr
125. There is 100% increase to an amount in 8 years, at simple interest. Find the compound interest of Rs. 8000 after 2 years at the same rate of interest.  
 (a) Rs. 2500  
 (b) Rs. 2000  
 (c) Rs. 2250  
 (d) Rs. 2125
126. If the number p is 5 more than q and the sum of the squares of p and q is 55, then the product of p and q is  
 (a) 10 (b) -10 (c) 15 (d) -15
127. If  $a + \frac{1}{a-2} = 4$ , then the value of  $(a-2)^2 + \left(\frac{1}{a-2}\right)^2$  is  
 (a) 0 (b) 2  
 (c) -2 (d) 4
128. If  $a + b + c = 2s$ , then  $\frac{(s-a)^2 + (s-b)^2 + (s-c)^2 + s^2}{a^2 + b^2 + c^2}$  is equal to  
 (a)  $a^2 + b^2 + c^2$  (b) 0  
 (c) 1 (d) 2
129. If  $xy(x+y) = 1$  then the value of  $\frac{1}{x^3y^3} - x^3 - y^3$  is  
 (a) 3 (b) -3  
 (c) 1 (d) -1
130. If  $a^3 - b^3 - c^3 = 0$  then the value of  $a^9 - b^9 - c^9 - 3a^3b^3c^3$  is  
 (a) 1 (b) 2  
 (c) 0 (d) -1
131. The minimum value of  $(x-2)(x-9)$  is  
 (a)  $-\frac{11}{9}$  (b)  $\frac{49}{4}$   
 (c) 0 (d)  $-\frac{49}{4}$
132. If  $x + y + z = 6$  and  $x^2 + y^2 + z^2 = 20$  then the value of  $x^3 + y^3 + z^3 - 3xyz$  is  
 (a) 64 (b) 70 (c) 72 (d) 76
133. The third proportion to  $\left(\frac{x}{y} + \frac{y}{x}\right)$  and  $\sqrt{x^2 + y^2}$  is  
 (a)  $xy$  (b)  $\sqrt{xy}$   
 (c)  $3\sqrt{xy}$  (d)  $4\sqrt{xy}$
134. If a triangle ABC, the side BC is extended up to D. Such that  $CD = AC$ , if  $\angle BAD = 109^\circ$  and  $\angle ACB = 72^\circ$  then the value of  $\angle ABC$  is  
 (a)  $35^\circ$  (b)  $60^\circ$   
 (c)  $40^\circ$  (d)  $45^\circ$
135. Two circles touch each other internally. Their radii are 2 cm and 3 cm. The biggest chord of the greater circle which is outside the inner circle is length  
 (a)  $2\sqrt{2}$  cm  
 (b)  $3\sqrt{2}$  cm  
 (c)  $2\sqrt{3}$  cm  
 (d)  $4\sqrt{2}$  cm
136. ABCD is a cycle quadrilateral, AB and DC are produced to meet at P. If  $\angle ADC = 70^\circ$  and  $\angle DAB = 60^\circ$ , then the  $\angle PBC + \angle PCB$  is  
 (a)  $130^\circ$   
 (b)  $150^\circ$   
 (c)  $155^\circ$   
 (d)  $180^\circ$
137. From a point P which is at a distance of 13 cm from centre O of a circle of radius 5cm, in the same plane, a pair of tangents PQ and PR are drawn to the circle. Area of quadrilateral PQOR is  
 (a)  $65\text{ cm}^2$  (b)  $60\text{ cm}^2$   
 (c)  $30\text{ cm}^2$  (d)  $90\text{ cm}^2$



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138. A horse is tied to a post by a rope. If the horse moves along a circular path always keeping the rope stretched and describes 88 mete when it has traced out  $72^\circ$  at the centre the length of the rope is

(Take  $\pi = \frac{22}{7}$ )

- (a) 70 cm (b) 75 cm  
 (c) 80 cm (d) 65 cm

139. Maximum value of  $(2\sin \theta + 3 \cos \theta)$  is

- (a) 2 (b)  $\sqrt{13}$  (c)  $\sqrt{15}$  (d) 1

140. The value of  $152(\sin 30^\circ + 2\cos^2 45^\circ + 3\sin 30^\circ + 4\cos^2 45^\circ + \dots + 17 \sin 30^\circ + 18 \cos^2 45^\circ)$  is

- (a) an integer but not a perfect square  
 (b) a rational number but not an integer  
 (c) a perfect square of an integer  
 (d) irrational

141. If  $(1 + \sin \alpha)(1 + \sin \beta)(1 + \sin \gamma) =$

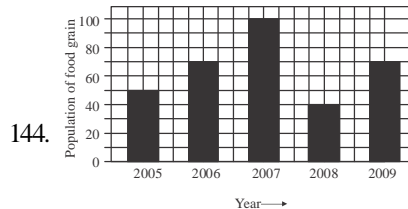
$(1 - \sin \alpha)(1 - \sin \beta)(1 - \sin \gamma)$ , then each side equal to

- (a)  $\pm \cos \alpha \cos \beta \cos \gamma$   
 (a)  $\pm \sin \alpha \sin \beta \sin \gamma$   
 (b)  $\pm \cos \alpha \cos \beta \cos \gamma$   
 (c)  $\pm \sin \alpha \sin \beta \cos \gamma$

142. One of the four angles of rhombus is  $60^\circ$ . If the length of each side of the rhombus is, 8 cm, then the length of the longer diagonal is  
 (a) cm (b) 8cm (c) cm (d) cm

143. If the areas of square length in two circle subtend angles of  $60^\circ$  and  $75^\circ$  at their centers the ratio of their radii is

- (a) 3 : 4 (b) 4 : 5  
 (c) 5 : 4 (d) 3 : 5



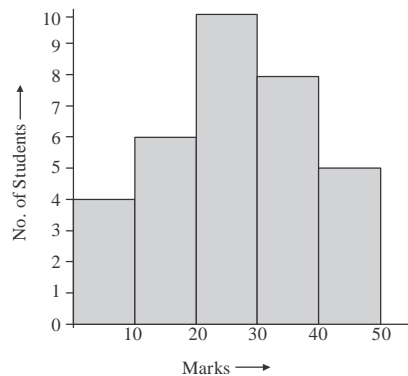
144.

Study the above bar graph showing the production of food grains (in million tons).

What is the ratio between maximum production and the minimum production during the given period?

- (a) 1 : 2 (b) 2 : 3  
 (c) 3 : 4 (d) 5 : 2

**Directions:** Study the following Histogram and answer following question nos. 145 to 149.



145. The total number of students

involved in the data is

- (a) 33 (b) 32 (c) 43 (d) 42

146. The maximum number of students got the marks in the interval of

- (a) 10-20 (b) 20-30  
 (c) 30-40 (d) 40-50

147. The latest number of students got the marks in the interval.

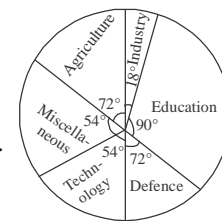
- (a) 40-50  
 (b) 20-30  
 (c) 10-20  
 (d) 0-10

148. The ratio of the students obtaining marks in the first and the last interval is

- (a) 5 : 4 (b) 6 : 5 (c) 4 : 5 (d) 3 : 4

149. The difference in the amount estimated by the family on interior decoration and architect's fees is

- (a) Rs. 10000 (b) Rs. 9500  
 (c) Rs. 7200 (d) Rs. 9600



150.

In a certain country, allocation to various sectors of the yearly budget per Rs. 1000 crores are represented by this pie-diagram. The expenditure (in Rs.) on Agriculture is

- (a) 250 crore  
 (b) 150 crore  
 (c) 300 crore  
 (d) 200 crore

## ENGLISH LANGUAGE

**Direction:** In question nos. 151 and 152, there are four different words out of which one is correctly spelt. Find the correctly spelt word and indicate it by blackening the appropriate oval [○] in the Answer Sheet.

151. (a) humorous

- (b) humourous  
 (c) humorus  
 (d) humourus  
 152. (a) narcissism  
 (b) narcissism  
 (c) narcisim  
 (d) narsisism

**Directions:** In question nos. 153 to 162, you have two brief passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval [○] in the Answer Sheet.



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**Passage 1: (Question Nos. 153 – 157)**

Pidgins are languages they are not, acquired as mother tongues and that are used for a restricted set of communicative functions. They are formed from a mixture of languages and have a limited vocabulary and a simplified grammar. Pidgins serve as a means of communication between speakers of mutually unintelligible languages and may become essential, in multilingual areas? A Creole develop from a pidgin when the pidgin becomes the mother tongue of the community. To cope with the consequent expansion of communicative functions the vocabulary is increased and the grammar becomes more complex. Where a creole and standard variety of English coexist, as in the Caribbean, there is a continuum from the most extreme form of creole to the form that is closest to the standard language. Linguists mark off the relative position on the creole continuum as the 'basilect' (the furthest from the standard language), the 'mesolect', and the 'acrolect'. In such situations, most creole speakers can vary their speech along the continuum and many are also competent in the standard English of their country.

153. A pidgin develops in a situation when
- Different and mutually unintelligible languages exist side by side
  - A creole becomes the mother tongue of a linguistic community
  - A language with restricted vocabulary undergoes an expansion in grammar and vocabulary
  - Two similar languages are mixed to create a new language
154. According to the given passage a pidgin becomes a creole when
- It ceases to be a means of

communication

- It becomes the mother tongue for a new generation of speakers
  - Its vocabulary undergoes some kind of change
  - Two or more languages are mixed with an existing pidgin
155. According to the passage a creole continuum is
- A linguistic term for the mixture of more than two languages
  - A scale which measures the linguistic competence of the speaker
  - A scale in which the proximity of the creole to the standard language is measured
  - A record of the continuous history of a creole
156. According to the passage 'basilect' means
- An impure form of a creole
  - A form of creole which is furthest from the standard language
  - A form of creole which has an extended vocabulary
  - A form of creole which is very close to the standard language
157. Find out a word in the passage which is opposite in meaning to the word – 'Simplified'
- Complex
  - Expansion
  - Restricted
  - Consequent

**Passage II: (Question Nos. 158 – 162)**

There were four of us – George, and William Samuel Harris, and myself, and Montomorency. We were sitting in my room, smoking and talking about how bad we were – bad from a medical point of view I mean, of course.

We were all feeling seedy, and we were getting quite nervous about it.

Harris said he felt such extraordinary fits of giddiness come over him at times, that he hardly knew what he was doing; and then George said that he had fits of giddiness too, and hardly knew what he was doing. With me, it was my liver that was out of order. I knew it was my liver that was out of order, because I had just been reading a patent liver-pill circular, in which were detailed the various symptoms by which a man could tell when his liver was out of order. I had them all.

It is a most extraordinary thing, but I never read a patent medicine advertisement without being impelled to the conclusion that I am suffering from the particular disease therein dealt with in its most virulent form. The diagnosis seems in every case to correspond exactly with all the sensations that I have ever felt.

158. The four felt down and out because
- the room was too smoky
  - they could never read a patent medicine advertisement
  - they thought they were ill
  - they had experienced a most extraordinary thing
159. Whenever the speaker read a liver pill circular
- he suffered from an extraordinary surge of giddiness
  - he felt sure that he had a liver disorder
  - he felt the urge to smoke
  - All of the above
160. The author of the above passage seems to be suffering from
- fits of morbid depression without real cause
  - an abnormal anxiety about his health
  - melancholia
  - an unnecessarily dark, gloomy and pessimistic attitude to life



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161. Harris was troubled by  
(a) a symptom of vertigo  
(b) garrulity  
(c) tribulation  
(d) frailty
162. The word which is closet in meaning to virulent is  
(a) fantastic  
(b) vital (c) viral  
(d) hostile

**Directions:** In question nos. 163 to 167, some parts of the sentence have errors and some have none. Find out which part of a sentence has an error and blacken the oval [○] corresponding to the appropriate letter (A, B, C). If a sentence is free from error, blacken the oval corresponding to (D) in the Answer Sheet.

163. I whistled thrice (a) will full might and raise my arms (b) towards the sky (c). No error. (d)
164. Science and religion (a) are both necessary for man and for their (b) outer and inner self respectively. (c) No error (d)
165. At certain season (a) some areas on Mars (b) is subject to strong winds. (c) No error (d)
166. As an artist (a) Raju is as good (b) if not better than Ramesh. (c) No error (d)
167. The scientists (a) could not hardly (b) complete all the experiments. (c) No error (d)

**Directions:** In question nos. 168 to 172, sentence are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval [○] in the Answer Sheet.

168. Google is one of the most popular search engines, it is \_\_\_\_\_ by the interest users.  
(a) utilized

- (b) effected  
(c) examined  
(d) flabbergasted
169. Raj was tired of Puja's \_\_\_\_\_ approach, so he asked her to make her final decision by that evening.  
(a) silly-willy  
(b) dilly-dally  
(c) wasting  
(d) tilly-nally
170. Ria is \_\_\_\_\_ at speaking languages. It is difficult to \_\_\_\_\_ only one puppy for animal shelter.  
(a) adept, adapt (b) adapt, adapt  
(c) adept, adopt (d) adapt, adopt
171. School days are considered to be the best years of your life. When my \_\_\_\_\_ year in school began. I began to think of those past enjoyable days and of my future also.  
(a) penultimate  
(b) absolute  
(c) integral  
(d) termination
172. Begin \_\_\_\_\_, the judge gave a favourable verdict.  
(a) sagacious  
(b) pugnacious  
(c) malicious  
(d) tenacious

**Directions:** In question nos. 173 to 175, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

173. Garrulous  
(a) talkative  
(b) sedative  
(c) vocative  
(d) positive
174. Tinsel  
(a) tinkle  
(b) decoration  
(c) tin  
(d) colourful
175. Labyrinth  
(a) meandering (b) rotating

- (c) pacing  
(d) wriggling

**Directions:** In question nos. 176 to 178, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

176. Cordial  
(a) fast  
(b) heartfelt  
(c) friendly  
(d) hostile
177. Instinctive  
(a) innate  
(b) rational  
(c) inherent  
(d) inborn
178. Venial  
(a) minor  
(b) pardonable  
(c) unpardonable  
(d) clean

**Directions:** In question nos. 179 to 183, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark in the Answer Sheet.

179. Hard work pays in the long run.  
(a) always  
(b) over a period of time  
(c) indefinitely  
(d) never
180. I felt a fish out of water among the lawyers.  
(a) special  
(b) happy  
(c) uncomfortable  
(d) proud
181. The Cauvery water issue led to apple of discord between the two Governments.  
(a) cause of anger  
(b) cause of hatred  
(c) cause of quarrel  
(d) cause of animosity
182. The construction remains unfinished and the workers have



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let the grass grow under their feet.

- (a) grown grass all over the lawn
- (b) gone on a luxury tour
- (c) delayed doing the work
- (d) demanded more benefits

183. The police smelt the rat behind the death of the girl.

- (a) got very much confused
- (b) identified the cause of death
- (c) suspected that something is fishy
- (d) jumped to the conclusion

**Directions:** In question nos. 184 to 193, a sentence/part of the sentence is underlined. Below are given alternatives to the underlined sentence/part of the sentence at (A), (B) and (C) which may improve the sentence. Choose the correct alternative. In case no. improvement is needed, your answer is (D).

184. The disparity of the GDP between the rich and the poor has broadened in the last some decades.

- (a) have widened in the last some decades
- (b) has widened in the last few decades
- (c) have broadened in the last few decades
- (d) No improvement

185. How is beyond my understanding, the boy could fail into the ditch.

- (a) How the boy could fall into the ditch is beyond my understanding
- (b) Beyond my understanding is how the boy could fall into the ditch
- (c) How could the boy fall into the ditch is beyond my understanding
- (d) No improvement

186. The pioneer spacecraft went beyond Pluto.

- (a) made its way past

(b) went across

- (c) went after
- (d) No improvement

187. The firms buys frozen seafood in bulk, packs it into smaller pouches and then they sell them to the local grocery stores.

- (a) it sells them
- (b) sell them
- (c) they sell the pouches
- (d) No improvement

188. The learners are intended to read the sources at home.

- (a) are meant
- (b) are suggested
- (c) are expected
- (d) No improvement

189. Fuji's invention of supercomputer will be enable to make Japan supersede America in computer technology.

- (a) will make Japan
- (b) will enable Japan
- (c) can make Japan
- (d) No improvement

190. I could never repay the debt I owe to my place of study.

- (a) Alma Mater
- (b) Motherland
- (c) Place of worship
- (d) No Improvement

191. She cries all the time.

- (a) mostly everytime
- (b) Day in and day out
- (c) pretty frequently
- (d) No improvement

192. For a week last month, the team's 20 players were standard because the Government-issued passport is not up to international standards.

- (a) Government-issued passport were not up to international standards
- (b) Government-issued passport are not up to international standards
- (c) The passports issued by the government were not up to international standards

(d) No improvement

193. Since July 2008, our customer will be able to use the ATM network of BBY Bank, the bank that was acquired by us during that year.

- (a) have been able to use
- (b) were using
- (c) will have been able to use
- (d) No improvement

**Directions:** In question 194 to 200 out of the four alternatives, choose the one which can be substituted for the given words/sentence and indicate it by blackening the appropriate oval [ ] in the Answer Sheet.

194. One who is unaffected or indifferent to joy pain, pleasure or grief

- (a) tolerant
- (b) resigned
- (c) passive
- (d) stoic

195. A person who is greatly respected because of wisdom

- (a) veracious
- (b) vulnerable
- (c) venerable
- (d) verger

196. An excessively morbid desire to steal

- (a) stealomania
- (b) kleptomania
- (c) cleftomania
- (d) keptomania

197. Prohibited by law or treaty from being imported or exported

- (a) contraband
- (b) smuggled
- (c) counterfeit
- (d) forged

198. Intentional destruction of racial groups

- (a) regicide
- (b) genocide
- (c) homicide
- (d) fratricide

199. A person is a vehicle or on horseback escorting another vehicle

- (a) Navigator
- (b) Escort
- (c) Outrider
- (d) Security

200. A person specially interested in the study of coins and medals.

- (a) medalist
- (b) coinist
- (c) numismatist
- (d) numerist



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## ANSWERS

1. (c)	2. (d)	3. (c)	4. (a)	5. (b)	6. (d)	7. (d)	8. (b)	9. (d)	10. (d)
11. (b)	12. (c)	13. (d)	14. (b)	15. (d)	16. (b)	17. (a)	18. (d)	19. (a)	20. (a)
21. (a)	22. (b)	23. (d)	24. (d)	25. (b)	26. (b)	27. (d)	28. (d)	29. (d)	30. (b)
31. (b)	32. (b)	33. (b)	34. (c)	35. (b)	36. (d)	37. (d)	38. (b)	39. (b)	40. (d)
41. (d)	42. (d)	43. (d)	44. (b)	45. (c)	46. (b)	47. (c)	48. (d)	49. (c)	50. (c)
51. (c)	52. (c)	53. (a)	54. (b)	55. (d)	56. (b)	57. (c)	58. (b)	59. (b)	60. (d)
61. (b)	62. (a)	63. (c)	64. (d)	65. (c)	66. (c)	67. (d)	68. (d)	69. (b)	70. (b)
71. (d)	72. (d)	73. (a)	74. (a)	75. (a)	76. (c)	77. (d)	78. (c)	79. (d)	80. (d)
81. (b)	82. (a)	83. (c)	84. (a)	85. (c)	86. (c)	87. (a)	88. (d)	89. (a)	90. (b)
91. (b)	92. (a)	93. (c)	94. (b)	95. (a)	96. (c)	97. (c)	98. (b)	99. (b)	100. (c)
101. (b)	102. (a)	103. (d)	104. (b)	105. (b)	106. (d)	107. (a)	108. (d)	109. (c)	110. (c)
111. (c)	112. (b)	113. (d)	114. (a)	115. (d)	116. (a)	117. (b)	118. (c)	119. (b)	120. (c)
121. (a)	122. (b)	123. (b)	124. (c)	125. (d)	126. (c)	127. (b)	128. (c)	129. (a)	130. (c)
131. (d)	132. (c)	133. (a)	134. (a)	135. (d)	136. (a)	137. (b)	138. (a)	139. (c)	140. (c)
141. (a)	142. (a)	143. (c)	144. (d)	145. (a)	146. (b)	147. (d)	148. (c)	149. (d)	150. (d)
151. (a)	152. (b)	153. (a)	154. (b)	155. (c)	156. (b)	157. (a)	158. (c)	159. (b)	160. (b)
161. (a)	162. (d)	163. (b)	164. (b)	165. (c)	166. (b)	167. (b)	168. (a)	169. (b)	170. (c)
171. (a)	172. (a)	173. (a)	174. (b)	175. (a)	176. (d)	177. (b)	178. (c)	179. (b)	180. (c)
181. (c)	182. (c)	183. (c)	184. (b)	185. (a)	186. (a)	187. (a)	188. (c)	189. (b)	190. (a)
191. (b)	192. (c)	193. (a)	194. (d)	195. (c)	196. (b)	197. (a)	198. (b)	199. (c)	200. (c)



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Held On: 08-07-2012 (1<sup>st</sup> sitting)

## REASONING

**Directions (1-9):** In each of the following questions, select the related letters / words / numbers from the given alternatives.

- 9 : 80 :: 100 : ?  
(a) 901 (b) 1009  
(c) 9889 (d) 9999
- 25 : 125 :: 36 : ?  
(a) 180 (b) 206  
(c) 216 (d) 318
- 335 : 216 :: 987 : ?  
(a) 868 (b) 867  
(c) 872 (d) 888
- BEGK : ADFJ :: PSVY : ?  
(a) ROUX (b) ORUX  
(c) LQUT (d) LOQT
- AZBY : CXDW :: EVFU : ?  
(a) GTHS (b) GHTS  
(c) GS:TH (d) TGSH
- BDFH : SUWY :: CEGI : ?  
(a) QTWZ (b) PTVX  
(c) JLNP (d) TVXZ
- food : man :: fuel : ?  
(a) wood (b) fire  
(c) heat (d) smoke
- Spiritual : Belief :: Orchestral : ?  
(a) Theatre (b) Situation  
(c) Music (d) Direction
- Latter : Former :: Hazardous : ?  
(a) Risky (b) Comfortable  
(c) Safe (d) Harmful

**Directions (10-18):** In each of the following questions, find the odd word/ number / letters / number pair from the given alternatives.

- (a) VWY (b) QRT  
(c) LMO (d) JKL
- (a) BE (b) GJ  
(c) NP (d) QR
- (a) 400 (b) 484  
(c) 625 (d) 729
- (a) 1000 (b) 1725  
(c) 2744 (d) 4096
- (a) 12-16 (b) 60-80  
(c) 30-50 (d) 36-48
- (a) CX (b) DW  
(c) JQ (d) LR
- (a) Cyclotron (b) Basic  
(c) Pascal (d) Fortran
- (a) Rooster (b) Buck  
(c) Gander (d) Peahen
- (a) Booklet (b) Pamphlet  
(c) Voucher (d) Brochure
- Which word will appear third in the dictionary?  
(a) BALLIUM  
(b) BALLISTICS  
(c) BALLERINA  
(d) BALLISTITE
- Which word will appear last in the dictionary?  
(a) laugh  
(b) latch  
(c) laurels (d) latitude
- Arrange the given words in a meaningful order:  
1. INFANT  
2. ADOLESCENT  
3. CHILD  
4. OLD  
5. ADULT

- (a) 3, 1, 2, 4, 5 (b) 1, 3, 2, 5, 4  
(c) 3, 2, 4, 5, 1  
(d) 5, 4, 3, 2, 1

**Directions (22-23) :** In each of the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

- c \_ ab \_ ca \_ bc \_ a  
(a) bcab (b) abcb  
(c) bacb (d) cbac
- \_ ba \_ bab \_ babb \_ b  
(a) baaa (b) abbb  
(c) babb (d) abab

**Directions (24-27):** In each of the following questions, select the missing number from the given responses.

- 500, 484, 459, \_\_?\_\_, 374  
(a) 384 (b) 432  
(c) 418 (d) 423
- MNOPWXYZRSTUBCD \_\_?\_\_  
(a) A (b) E  
(c) I (d) F
- 60, 69, 85, \_\_?\_\_, 146  
(a) 110 (b) 117  
(c) 109 (d) 120
- 46, 50, 47, 55, 49, 61, \_\_?\_\_  
(a) 54 (b) 52  
(c) 57 (d) 51
- The average age of 25 subordinates in an office is 30 years. If the age of Manager is added, the average age increases to 31 years. What is the age of the Manager?



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- (a) 26 (b) 36  
 (c) 46 (d) 56
29. Class A has students twice that of class B. After adding 20 students to class A and 30 students to class B, the total number of students in both the classes is 140. What is the number of students in class A in the beginning?  
 (a) 30 (b) 60  
 (c) 80 (d) 140
30. Find the lowest number which is divided by 8, 12, 15 and 20 leaves the remainder 2.  
 (a) 360 (b) 242  
 (c) 122 (d) 82
31. If B becomes A and P becomes O, what will K become in the English alphabet?  
 (a) L (b) J  
 (c) H (d) N
32. The given word is followed by 4 responses, one of which cannot be formed by using the letters of the word given 'CAMBRIDGE'. Find out the word.  
 (a) BRIDGE (b) BRIDE  
 (c) CAME (d) CAMP
33. If SEASONAL is written as ESSANOLA, how can SEPARATE be written in that code?  
 (a) SEAPARET  
 (b) ESPARATE  
 (c) ESPAARTE (d) ESAPARET
34. In certain code, RAGHAVAN is written as GARVAHNA. In that code which word will be written as MATHAVAN?  
 (a) TAMVAHNA  
 (b) TAMVAHAN  
 (c) TAMHAVNA  
 (d) MATVAHNA
35. If 'FRIEND' is coded as 'IULHQG', how will you code 'ENEMY'?  
 (a) HQHPB (b) HQHPA  
 (c) HQEMY (d) HQHPG
36. In a coded language, if the word EQUATION is coded as GSWCVKQP, then how is the word DONKEY coded?

- (a) FQPMGA (b) YEKNOD  
 (c) GWCVKJ (d) PQKUCW
37. If  $38 + 15 = 66$  and  $29 + 36 = 99$ , then  $82 + 44 = ?$   
 (a) 77 (b) 88  
 (c) 80 (d) 94
38. If + means  $\div$ , - means  $\times$ ,  $\times$  means +,  $\div$  means -, give the value for  $45 + 9 - 3 \times 15 \div 2$   
 (a) 40 (b) 36  
 (c) 56 (d) 28

**Directions (39-40):** In each of the following questions, select the missing number from the given responses.

39. 

7	8	6
4	9	5
3	2	?
25	70	29

  
 (a) 9 (b) 8  
 (c) 1 (d) 5
40. 

3	4	5
6	7	8
9	1	2
57	11	?

  
 (a) 42 (b) 21  
 (c) 11 (d) 18
41. From the given details, estimate the number of people affected by Tuberculosis in particular locality in the year 1994.  

1994	1995	1996	1997	1998
?	92	113	141	176

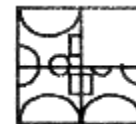
  
 (a) 99 (b) 85  
 (c) 71 (d) 78
42. A man started from a place walked towards North for 5 km then turned  $90^\circ$  to his right and walked another 5 km. Then he turned  $45^\circ$  to his right and walked 2 km and turned  $45^\circ$  to his left. What is his direction now?  
 (a) South (b) South East  
 (c) East (d) South West
43. A boy running towards South, turns to his right and runs, Then he turns to his right and finally turns to his left. Towards which direction is he running now?  
 (a) East (b) West  
 (c) South (d) North

**Directions (44-45):** In the following questions, one statement is given, followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

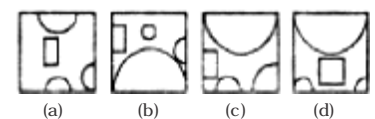
44. Statement  
 To keep myself updated, I always listen to 9 O'clock news on radio.  
 Conclusions:  
 I. The person does not read newspaper.  
 II. Recent news is available only on radio.  
 (a) Only conclusion I is implicit  
 (b) Only conclusion II is implicit  
 (c) Neither conclusion I nor II is implicit  
 (d) Both conclusions I and II are implicit
45. Statement  
 All wealthy people are happy in life.  
 Conclusions:  
 I. Wealth and happiness are directly related.  
 II. Wealth leads to happiness in life.  
 (a) Only conclusion I follows  
 (b) Only conclusion II follows  
 (c) Both conclusions I and II follow  
 (d) Neither conclusion I nor II follows

**Directions:** In the following questions, which answer figure will complete the question figure?

46. Question Figure



Answer figure



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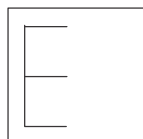
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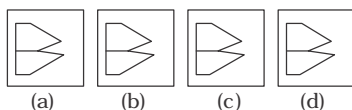
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47. From the given answer figures, select the one in which the question figure is hidden! embedded.

Question Figure

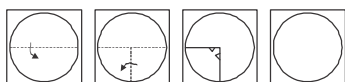


Answer Figures

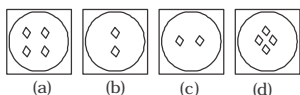


**Directions:** In the following question, a piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

48. Question Figures:



Answer Figures:



49. Select the correct option that will be the mirror reflection of the problem figure.

Question Figure



Answer Figures



(a) (b) (c) (d)

**Directions:** In the following question, a word is represented by only one set of numbers as given in anyone of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'P' can be represented by 11, 32, etc. and 'K' can be represented by 65, 78, etc. Similarly, you have to identify the set for the word SALM.

50. MATRIX-I

	0	1	2	3	4
0	P	A	I	V	R
1	I	P	R	A	V
2	A	R	V	P	I
3	V	I	P	R	A
4	R	V	A	I	P

MATRIX-II

	5	6	7	8	9
5	S	L	K	M	E
6	K	M	S	E	L
7	M	E	L	K	S
8	L	K	E	S	M
9	E	S	M	L	K

- (a) 55, 20, 56, 69  
 (b) 79, 13, 69, 75  
 (c) 96, 34, 76, 89  
 (d) 67, 21, 85, 97

## GENERAL AWARENESS

51. Which one of the following is an example for a non-economic good?

- (a) Doctor's service  
 (b) Teacher's service  
 (c) Mother's service  
 (d) Banker's service

52. Which one of the following committee is associated with banking sector reforms in India ?

- (a) L. C. Gupta (b) Narsimhan  
 (c) Chakravarty (d) Kelkar

53. Which one of the following is not a qualitative credit control measure of the RBI?

- (a) Fixing margin requirements  
 (b) Variable interest rates

- (c) Open market operations  
 (d) Credit rationing

54. The 13th Five Year Plan will be operative for the period

- (a) 2010-2015  
 (b) 2011-2016  
 (c) 2012-2017  
 (d) 2013-2018

55. The national income of a nation is the

- (a) Government's annual revenue  
 (b) Sum total of factor incomes  
 (c) Surplus of public sector enterprises  
 (d) Exports minus imports

56. The Constitutional Amendment

Act that has introduced safeguards against the misuse of proclamation of national emergency is the

- (a) 42nd Amendment Act  
 (b) 43rd Amendment Act  
 (c) 44th Amendment Act  
 (d) 45th Amendment Act

57. The Fundamental Rights can be suspended by the

- (a) Governor  
 (b) President  
 (c) Law Minister  
 (d) Prime Minister

58. The main reason for the growth of communalism in India is



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- (a) Educational and economic backwardness of minority groups  
 (b) Political consciousness  
 (c) Social inequalities  
 (d) Imposing ban on communal organisations
59. A Retired Judge of a High Court is not permitted to practice as a lawyer in  
 (a) Supreme Court  
 (b) Any Court in India  
 (c) High Courts  
 (d) Except the High Court where he retired
60. Which one of the following does not match?  
 (a) Hindu Marriage Act : 1955  
 (b) Medical Termination of Pregnancy Act: 1971  
 (c) Domestic Violence on Women Act: 1990  
 (d) Cruelty against Women: 1995
61. Who among the following was the First Viceroy of India ?  
 (a) Lord Ripon  
 (b) Lord Curzon  
 (c) Lord Mountbatten  
 (d) Lord Canning
62. Prithvi Raj Chauhan was defeated in the Second Battle of Tarain by  
 (a) Mahmud Ghazni  
 (b) Muhammad Ghor  
 (c) Qutbuddin Aibak  
 (d) Yalduz
63. The original name of Nana Phadnavis was  
 (a) Mahadaji Sindhia  
 (b) Tukoji Holkar  
 (c) Narayan Rao  
 (d) Balaji Janardan Bhanu
64. Who among the following first propounded the idea of Basic Education?  
 (a) Jawahar Lal Nehru  
 (b) Raja Ram Mohan Roy  
 (c) Mahatma Gandhi  
 (d) Dayanand Saraswati
65. Arrange the following in chronological order:  
 I. Dandi March  
 II. Simon Commission  
 III. Poona Pact  
 IV. Gandhi Irwin Pact  
 (a) II, I, III, IV  
 (b) II, I, IV, III  
 (c) IV, III, I, II  
 (d) IV, III, III
66. Which one of the following is not correctly matched?  
 (a) Darjeeling - West Bengal  
 (b) Mount Abu - Rajasthan  
 (c) Kodaikanal - Tamil Nadu  
 (d) Simla - Uttar Pradesh
67. The earth is at its maximum distance from the Sun on  
 (a) January 30th  
 (b) December 22nd  
 (c) September 22nd  
 (d) July 4th
68. Consider the following pairs;  

<b>Tributary</b>	<b>Main Piver</b>
1. Chambal	Yamuna
2. Sone	Narmada
3. Manas	Brahmputra

 Which one of the pairs given above is/are correctly matched?  
 (a) 1, 2 and 3  
 (b) 1 and 2 only  
 (c) 2 and 3 only  
 (d) Only 3
69. A form of condensation that reduces visibility and causes breathing problems is  
 (a) Dew (b) Frost  
 (c) Smog  
 (d) Mist
70. The total population divided by available arable land area is referred to as  
 (a) Population density  
 (b) Nutritional density  
 (c) Agricultural density  
 (d) Industrial density
71. Green glands are associated with  
 (a) Reproduction  
 (b) Excretion  
 (c) Respiration  
 (d) Digestion
72. During respiration, the gases enter into the blood and leave the same by the process of  
 (a) Active transport  
 (b) Diffusion  
 (c) Diffusion and active transport  
 (d) Osmosis
73. Heart is devoid of  
 (a) Cardiac muscle  
 (b) Involuntary muscle  
 (c) Voluntary muscle  
 (d) Smooth muscle
74. The soil salinity is measured by  
 (a) Conductivity meter  
 (b) Hygrometer  
 (c) Psychrometer  
 (d) Auxanometer
75. Which of the following is a fungal disease?  
 (a) Leucoderma  
 (b) Eczema  
 (c) Ringworm  
 (d) Elephantiasis
76. Chickenpox is caused by  
 (a) DNA virus  
 (b) Variola virus  
 (c) Streptococcus  
 (d) Vi rio cholerae
77. Instruments can be shielded from outside magnetic effects by surrounding them with  
 (a) Iron shield  
 (b) Rubber shield  
 (c) Brass shield  
 (d) Glass shield
78. Find the odd one.  
 (a) Marble (b) Blackboard  
 (c) Chalk (d) Slaked lime
79. The following is a pseudo-force  
 (a) Centrepetal force  
 (b) Centrifugal reaction force  
 (c) Centrifugal force  
 (d) Strong nuclear force
80. The hydraulic brake used in automobiles is a direct application of  
 (a) Archimedes principle  
 (b) Torricellean law  
 (c) Bernoulli's Theorem  
 (d) Pascal's law



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81. Of the following, which is the fastest?  
(a) CD-ROM  
(b) RAM  
(c) Registers  
(d) Cache
82. An alternate name for the completely interconnected network topology is  
(a) Mesh (b) Star  
(c) Tree  
(d) Ring
83. Amides can be converted to amines by the reaction named  
(a) Perkin  
(b) Claisen  
(c) Claisen  
(d) Clemmensen
84. The base used as an antacid is  
(a) Calcium hydroxide  
(b) Barium hydroxide  
(c) Magnesium hydroxide  
(d) Silver hydroxide
85. A process which is not helpful in the prevention of rusting of iron is  
(a) annealing  
(b) applying grease  
(c) galvanising  
(d) painting
86. Denatured alcohol  
(a) is a form of alcohol  
(b) is unfit for drinking as it contains poisonous substances  
(c) contains coloured impurities  
(d) is sweet to taste
87. Phenolics as pollutants can be removed from waste water by use of  
(a) Ion exchange resin technique  
(b) Electrolyte decomposition technique  
(c) Reverse osmosis method  
(d) Polymeric adsorbents
88. The stability of a pond ecosystem depends on  
(a) micro-organisms and fishes  
(b) micro-organisms and zoo planktons  
(c) fishes and reptiles  
(d) producers and consumers
89. Supersonic air planes create a shock wave called  
(a) Transition wave  
(b) Ultrasound  
(c) Transverse wave  
(d) Sonic boom
90. The main factor which determines balance of nature is  
(a) human activities  
(b) Rabbit and habitat  
(c) environmental conditions  
(d) availability of food
91. The danger signals are red while the eye is more sensitive to yellow because  
(a) absorption in red is less than yellow and hence red is visible from a distance  
(b) scattering in yellow light is less than red  
(c) the wavelength of red light is more than yellow light  
(d) none of the above reasons
92. One of the following Chief Ministers received the Highest Civilian Award "Bharat Ratna"  
(a) Lalu Prasad Yadav of Bihar  
(b) Late M. G. Ramachandran of Tamil Nadu  
(c) Jyothi Basu of West Bengal  
(d) Late N. T. Rama Rao of Andhra Pradesh
93. The first 'disabled athlete' to qualify for an able bodied event in the 2012 London Olympics in 400 metres race is  
(a) Oscar Pistorius  
(b) Walter Rallis  
(c) Raymond Irchovich  
(d) Gerald Hangovin
94. Which one of the following film actors has been conferred the Honorary Doctorate in Arts and Culture by the Bedford University, London?  
(a) Shahrukh Khan  
(b) Amir Khan  
(c) Saif Ali Khan  
(d) Anil Kapoor
95. The city of Prayag was named Allahabad -the city of Allah by  
(a) Aurangzeb  
(b) Akbar  
(c) Shahjehan  
(d) Bahadur Shah Zafar
96. Spot the odd one from the following:  
(a) Tsunami  
(b) Earthquakes  
(c) Windmills  
(d) Cyclones
97. Who among the following has won the Pantaloon's Femina Miss India World, 2012 Award?  
(a) Prachi Misra  
(b) Vanya Misra  
(c) RocheIla Maria  
(d) Sandhya Agarwal
98. Which one of the following statements is not correct about India's population as per the 2011 census?  
(a) Literacy rate has gone up to 74% from 65%  
(b) Kerala has the highest literacy rate  
(c) Bihar has the lowest literacy rate  
(d) Men outnumber women in growth of literates
99. Who advocated the adoption of 'PURA' model to eradicate rural poverty ?  
(a) Dr. A. P. J. Abdul Kalam  
(b) Sri Abhijit Sen  
(c) Maulana Abdul Kalam Azad  
(d) Prof. A. M. Patha
100. Which one of the following though called a garden is infact, not a garden?  
(a) Vrindavan Garden of My sore  
(b) Hanging Garden of Mumbai  
(c) Eden Garden of Kolkata  
(d) Shalimar Garden of Kashmir



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## QUANTITATIVE APTITUDE

101. The next term of the series 1, 5, 12, 24, 43 is  
 (a) 51 (b) 62  
 (c) 71 (d) 78
102. The least multiple of 13 which when divided by 4, 5, 6, 7 leaves remainder 3 in each case is  
 (a) 3780 (b) 3783  
 (c) 2520 (d) 2522
103. The simplest value of  
 $\frac{1}{\sqrt{2} + \sqrt{3}} + \frac{1}{\sqrt{3} + \sqrt{4}} + \frac{1}{\sqrt{4} + \sqrt{5}} + \frac{1}{\sqrt{5} + \sqrt{6}}$  is  
 (a)  $\sqrt{3}(\sqrt{2} - 1)$   
 (b)  $\sqrt{2}(\sqrt{3} - 1)$   
 (c)  $\sqrt{3} - 1$  (d)  $\sqrt{2} - 1$
104. A and B are partners in a business. A contributes  $\frac{1}{4}$  of the capital for 15 months and B received  $\frac{2}{3}$  of the profit. Find for how long B's money was used?  
 (a) 6 months (b) 8 months  
 (c) 10 months (d) 12 months
105. If 21 is added to a number, it becomes 7 less than thrice of the number. Then the number is  
 (a) 14 (b) 16  
 (c) 18 (d) 19
106. Two men A and B started a job in which A was thrice as good as B and therefore took 60 days less than B to finish the job. How many days will they take to finish the job, if they take to finish the job, if they start working together?  
 (a) 15 days (b) 20 days  
 (c)  $22\frac{1}{2}$  days (d) 25 days
107. A rectangle garden is 100 m  $\times$  80 m. There is a path along the garden and just outside it. Width of the path is 10m. The area of the path is  
 (a) 1900 sq m (b) 2400 sq m  
 (c) 3660 sq m (d) 4000 sq m
108. A dealer offered a machines for sale for Rs. 27,500 but even if he had charge 10% less, the would have made a profit of 10%. The actual cost of the machine is  
 (a) Rs. 22000 (b) Rs. 24500  
 (c) Rs. 22500 (d) Rs. 22275
109. An employer reduces the number of employees in the ratio 8 : 5 and increases their wages in the ratio 7 : 9. As a result, the overall wages bill is  
 (a) Increased in the ration 56 : 69  
 (b) Decreased in the ratio 56 : 45  
 (c) Increased in the ratio 13 : 17  
 (d) Decreased in the ratio 17 : 13
110. The average age of a jury of 5 is 40. If a member aged 35 resigns and man aged 35 resigns and a man aged becomes a member, then the average age of the new jury is  
 (a) 30 (b) 38 (c) 40 (d) 42
111. With average speed of 40 km/hour, a train reaches its destination in time. If it goes with an average speed of 35 km hour, it is late by 15 minutes. The total journey is  
 (a) 30km (b) 40km  
 (c) 70km (d) 80km
112. A man makes a profit of 20% on the sale by selling 20 articles for Rs. 1. The number of articles he bought by Rs. 1 is  
 (a) 20 (b) 24  
 (c) 25 (d) 30
113. The number of seats in an auditorium is increased by 25%. The price of a ticket is also increased by 12%. Then the increase in revenue collection will be  
 (a) 40% (b) 35%  
 (c) 45% (d) 48%
114. A ship is moving at a speed of 30 km/hr. To know the depth of the ocean beneath it, it sends a radio wave which travels at a speed 200 m/s. The ship receives the signal after it has moved 500 m. The depth of the ocean is  
 (a)  $\frac{\sqrt{143}}{2}$  km (b) 12km  
 (c)  $\sqrt{6}$  km (d) 8km
115. A person takes a loan of Rs. 10,0000 partly from a bank at 8% p.a. and remaining from another bank at 10% p.a. He pays a total interest of Rs. 950 per annum. Amount of loan taken from the first bank (in Rs.) is  
 (a) 2500 (b) 5200  
 (c) 2050 (d) 5020
116. If  $a^2 + \frac{1}{a^2} = 98$  ( $a > 0$ ), then the value of  $a^3 + \frac{1}{a^3}$  will be  
 (a) 535 (b) 1030  
 (c) 790 (d) 970
117. If  $x = 1 + \sqrt{2} + \sqrt{3}$ , then the value of  $(2x^4 - 8x^3 - 5x^2 + 26x - 28)$  is  
 (a)  $6\sqrt{6}$  (b) 0  
 (c)  $3\sqrt{6}$  (d)  $2\sqrt{6}$
118. If the distance between two point (0, -5) and (x, 0) is 13 unit, then x =  
 (a) 10 (b)  $\pm 10$   
 (c) 12 (d)  $\pm 12$
119. If  $4x = 18y$ , then the value of  $\left(\frac{x}{y} - 1\right)$  is



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- (a)  $\frac{1}{3}$  (b)  $\frac{7}{2}$  (c)  $\frac{2}{3}$  (d)  $\frac{3}{2}$

120. If  $x + \frac{1}{x} = 5$ , then the value of

$$\frac{x^4 + \frac{1}{x^2}}{x^2 - 3x + 1}$$
 is

- (a) 70 (b) 50 (c) 110 (d) 55

121. If  $x = 2 + \sqrt{3}$ ,  $y = 2 - \sqrt{3}$ , then the

value of  $\frac{x^2 + y^2}{x^3 + y^3}$  is

- (a)  $\frac{7}{38}$  (b)  $\frac{7}{40}$

- (c)  $\frac{7}{19}$  (d)  $\frac{7}{26}$

122. If  $a^2 + b^2 + c^2 = 2(a - b - c) - 3$  then the value of  $2a - 3b + 4c$  is

- (a) 3 (b) 1  
(c) 2 (d) 4

123. If  $2x - \frac{1}{2x} = 6$ , then the value of

$$x^2 + \frac{1}{16x^2}$$
 is

- (a)  $\frac{19}{2}$  (b)  $\frac{17}{2}$

- (c)  $\frac{18}{3}$  (d)  $\frac{15}{2}$

124. If  $5a + \frac{1}{3a} = 5$ , the value of

$$9a^2 + \frac{1}{25a^2}$$
 is

- (a)  $\frac{34}{5}$  (b)  $\frac{39}{5}$

- (c)  $\frac{42}{5}$  (d)  $\frac{52}{5}$

125. The area of the triangle formed by the line  $5x + 7y = 35$ ,  $4x + 3y = 12$  and x-axis is

- (a)  $\frac{160}{13}$  sq. unit

- (b)  $\frac{150}{13}$  sq. unit

- (c)  $\frac{140}{13}$  sq. unit

- (d) 10 sq. unit

126. If an obtuse-angled triangle ABC,  $\angle A$  is the obtuse angle and O is the orthocenter. If  $\angle BOC = 54^\circ$ , then  $\angle BAC$  is

- (a)  $108^\circ$  (b)  $126^\circ$   
(c)  $136^\circ$  (d)  $116^\circ$

127. If the ratio of areas of two similar triangles is 9 : 16, then the ratio of their corresponding sides is

- (a) 3 : 5 (b) 3 : 4 (c) 4 : 5 (d) 4 : 3

128. Let BE and CF be the two medians of a  $\triangle ABC$  and G be their intersection. Also let EF cut AG at O. Then AO : OG is

- (a) 1 : 1 (b) 1 : 2 (c) 2 : 1 (d) 3 : 1

129. If S is the circumcentre of  $\triangle ABC$  and  $\angle A = 50^\circ$ , then the value of  $\angle BCS$  is

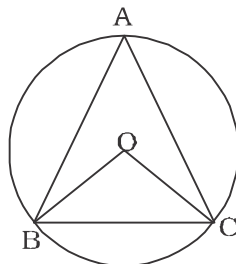
- (a)  $20^\circ$  (b)  $40^\circ$  (c)  $60^\circ$  (d)  $80^\circ$

130. AC and BC are two equal chords of a circle. BA is produced to any point P and CP, when joined cuts the circle at T. Then

- (a) CT : TP = AB : CA  
(b) CT : TP = CA : AB  
(c) CT : CB = CA : CP  
(d) CT : CB = CP : CA

131. PQ is a direct common tangent of two circle of radii  $r_1$  and  $r_2$  touching each other externally at A. Then the value of  $PQ^2$  is

- (a)  $r_1 r_2$  (b)  $2r_1 r_2$   
(c)  $3r_1 r_2$  (d)  $4r_1 r_2$



132.

BC is the chord of a circle with centre O. A is a point on major arc BC as shown in the above figure.

What is the value of  $\angle BAC + \angle OBC$ ?

- (a)  $120^\circ$  (b)  $60^\circ$   
(c)  $90^\circ$  (d)  $180^\circ$

133. Two circles with radii 5cm and 8 cm touch each other externally at a point A. If a straight line through the point A cuts the circles at points P and Q respectively, the AP : AQ is

- (a) 8 : 5 (b) 5 : 8  
(c) 3 : 4 (d) 4 : 5

134. If I is the In-centre of  $\triangle ABC$  and  $\angle A = 60^\circ$ , then the value of  $\angle BIC$  is

- (a)  $100^\circ$  (b)  $120^\circ$   
(c)  $150^\circ$  (d)  $110^\circ$

135. The external bisectors of  $\angle B$  and  $\angle C$  of  $\triangle ABC$  meet at point P. If  $\angle BAC = 80^\circ$ , the  $\angle BPC$  is

- (a)  $50^\circ$  (b)  $40^\circ$   
(c)  $80^\circ$  (d)  $100^\circ$

136. When a pendulum of length 50 cm oscillates, it produces an arc of 16 cm. The angle so formed in degree measure so formed in degree measure is (approx)

- (a)  $18^\circ 25'$  (b)  $18^\circ 35'$   
(c)  $18^\circ 20'$  (d)  $18^\circ 08'$

137. If x, y are positive acute angles,  $x + y < 90^\circ$  and  $\sin(2x - 20^\circ) = \cos(2y + 20^\circ)$ , then the value of  $\sec(x + y)$  is

- (a)  $\sqrt{2}$  (b)  $\frac{1}{\sqrt{2}}$   
(c) 1 (d) 0

138. If  $5 \tan \theta = 4$ , then the value of

$$\left( \frac{5 \sin \theta - 3 \cos \theta}{5 \sin \theta + 3 \cos \theta} \right)$$
 is

- (a)  $\frac{1}{7}$  (b)  $\frac{2}{7}$   
(c)  $\frac{5}{7}$  (d)  $\frac{2}{5}$



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139. The least value of  $4\sec^2\theta + 9\operatorname{cosec}^2\theta$  is  
 (a) 1 (b) 19  
 (c) 25 (d) 7
140. If  $\tan(x+y)\tan(x-y) = 1$ , then the value of  $\tan\left(\frac{2x}{3}\right)$  is  
 (a)  $\frac{1}{\sqrt{3}}$  (b)  $\frac{2}{\sqrt{3}}$   
 (c)  $\sqrt{3}$  (d) 1
141. If  $x = \operatorname{cosec}\theta - \sin\theta$  and  $y = \sec\theta - \cos\theta$ , then the value of  $x^2y^2(x^2 + y^2 + 3)$  is  
 (a) 0 (b) 1 (c) 2  
 (d) 3
142. If  $0 \leq \theta \leq \frac{\pi}{2}$ ,  $2y \cos\theta = \sin\theta$  and  $2x \sec\theta - y \operatorname{cosec}\theta = 3$ , then the value of  $x^2 + 4y^2$  is  
 (a) 1 (b) 2 (c) 3  
 (d) 4
143. When the angle of elevation of the sun increases from  $30^\circ$  to  $60^\circ$ , the shadow of a post is diminished by 5 metres. Then the height of the post is  
 (a)  $\frac{5\sqrt{3}}{2}$  m (b)  $\frac{2\sqrt{3}}{2}$  m
- (c)  $\frac{2}{5\sqrt{3}}$  m (d)  $\frac{4}{5\sqrt{3}}$  m
144. A rail road curve is to be laid out on a circle. What radius should be used if the track is to change direction by  $25^\circ$  in a distance of 40 metres?  
 (a) 91.64 metres (b) 90.46 metres  
 (c) 89.64 metres (d) 93.64 metres
145. If  $\sin\theta + \sin^2\theta = 1$ , then the value of  $\cos^{12}\theta + 3\cos^{10}\theta + \cos^6\theta - 1$  is  
 (a) 0 (b) 1  
 (c) -1 (d) 2
- Directions (146-150):** Population of the five adjacent areas of a town, in the year of 2020, are represented in the following Pie-chart. The ratio of the numbers of males to that of females in these areas are states in the table below. The total of the population in all the five areas is 72 lakh. Study the Pie-chart and the table and then answer the questions.
- FIGURE
- Ratio of number of males (M) to females (F)**
- | Areas     | S <sub>1</sub> | S <sub>2</sub> | S <sub>3</sub> | S <sub>4</sub> | S <sub>5</sub> |
|-----------|----------------|----------------|----------------|----------------|----------------|
| Ratio M:F | 3 : 2          | 4 : 1          | 7 : 3          | 2 : 3          | 13 : 7         |
146. 12 lakh in the population of the area
- (a) S<sub>1</sub> (b) S<sub>3</sub>  
 (c) S<sub>5</sub> (d) S<sub>4</sub>
147. The number of males in the areas S<sub>1</sub> and S<sub>4</sub> together is  
 (a) 13.8 lakh  
 (b) 8.2 lakh  
 (c) 16.2 lakh  
 (d) 15.8 lakh
148. The ratio of number of females in the areas S<sub>2</sub> in the areas S<sub>5</sub> is  
 (a) 7:9 (b) 36:13  
 (c) 9:7 (d) 13:36
149. If, in the year 2010, there was an increase of 5% population in the areas S<sub>1</sub> and 8% increase in population of the area S<sub>3</sub> compared to the previous year, then the ratio of population in the areas S<sub>1</sub> and S<sub>2</sub>, in the year 2009 was  
 (a) 3:10  
 (b) 27:10  
 (c) 27:70  
 (d) 10:3
150. The average of female population in all the five areas is lower than the female population in each of the areas  
 (a) S<sub>1</sub> and S<sub>2</sub>  
 (b) S<sub>2</sub> and S<sub>5</sub>  
 (c) S<sub>2</sub> and S<sub>4</sub>  
 (d) S<sub>4</sub> and S<sub>5</sub>

## ENGLISH COMPREHENSION

**Directions (151-155):** In the following questions, some parts of the sentences have errors and some have none, Find out which part of a sentence has an error. The number of that part is your answer. If there is no error then your answer is (d) i.e. No error.

151. Air pollution, together with littering, (a)/ are causing many problems(b)/ Vin our cities. (c)/ No error (d)
152. The accused refused (a)/ to answer to the policeman (b)/ on duty.(c)/No error (d).

153. What is (a)/ the use of me (b)/ attending the session? (c)/ No error (d)
154. We met our prospective employer (a) // for a briefing session(b) / in the Taj Hotel. (c) / No error (d).
155. Because of the severe snow storm and the road blocks, (a)/ the air force dropped food and (b)/ medical supplies close to the city. (c) No error (d)

**Directions (156-160):** In the following questions, sentences are given with

blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

156. \_\_\_\_\_ pollution control measures are expensive, many industries hesitate to adopt them.  
 (a) Although  
 (b) However  
 (c) Because (d) Despite
157. It is not for a man to be confined to the pursuit of wealth.



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- (a) healthy (b) easy  
(c) possible (d) common
158. \_\_\_ his being innocent of the crime, the judge sentenced him to one year imprisonment.  
(a) In spite of  
(b) In case of  
(c) On account of  
(d) In the event of
159. It is a story of two men and a batch of armoured cars.  
(a) deceased (b) diseased  
(c) decrepit (d) defeated
160. Although there is \_\_\_\_\_ gun-fire, there is no stiff resistance to the revolutionary army,  
(a) bitter (b) meagre  
(c) continuous (d) sporadic

**Directions (161-165):** In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given 'word as your answer.

161. Vociferous  
(a) violent (b) loud  
(c) secret (d) true
162. Fictional  
(a) genuine (b) authentic  
(c) fanciful (d) real
163. Trivial  
(a) crucial (b) significant  
(c) vital (d) ordinary
164. Impudent  
(a) Vigilant (b) Astute  
(c) Insolent (d) Arrogant
165. Pompous  
(a) Pretentious (b) Supportive  
(c) Demanding (d) Flashy

**Directions (166-170):** In the following questions, choose the word opposite in meaning to the given word as your answer.

166. Cultivated  
(a) Crude (b) Genteel  
(c) Suave (d) Refined
167. Impertinent  
(a) Insolent (b) Impudent  
(c) Cheeky (d) Courteous
168. Divulge

- (a) Disseminate  
(b) Dissemble  
(c) Publicize (d) Transmit
169. Appreciation  
(a) Aspersion (b) Admiration  
(c) Commendation  
(d) Compliment
170. Supple  
(a) Pliant (b) Pliable  
(c) Rigid (d) Flexible

**Directions (171-175):** In the following questions, four alternatives are given for the idiom/phrase and bold italicised in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase as your answer. -

171. Once the case reached the court, the police washed their hands off it.  
(a) waited for a response to  
(b) claimed credit for  
(c) disassociated themselves from  
(d) seemed eager to continue
172. She wanted to go hitch-hiking but her mother put her foot down and now she's 'going by bus.'  
(a) took a firm stand  
(b) expressed her displeasure  
(c) scolded her badly  
(d) got irritated
173. Adolescence is a period of halo cyan days.  
(a) hard days  
(b) of mental pressure  
(c) happy days  
(d) days of preparation
174. My sincere advice to my maid-servant fell on stony ground.  
(a) was counter productive  
(b) had a strong impact  
(c) made one stubborn  
(d) had little success
175. He has all his ducks in a row, he is complacent.  
(a) has everything ready  
(b) is well organised  
(c) always scores a zero  
(d) never gets confused

**Directions (176-180):** In the following questions, a part of the sentence is

printed in bold. Below are given alternatives to the bold part at (a), (b) and (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (d).

176. You shall have attended if the court had instructed you to do so.  
(a) would have had to attend  
(b) would attend  
(c) would have to  
(d) No improvement
177. The relics of Greece over which such a great deal of evidence has been collected should be preserved.  
(a) from which  
(b) on which  
(c) ascent which  
(d) No improvement
178. When the beverage was ready, they drank possibly as much as they could.  
(a) as much as they possibly could  
(b) as much as possibly they could  
(c) as much as they could possibly  
(d) No improvement
179. A citizen is expected to give allegiance to his country of origin.  
(a) homage  
(b) loyalty  
(c) obedience  
(d) No improvement
180. We were with daggers drawn despite attempts to understand each other;  
(a) in (b) on  
(c) at  
(d) No improvement

**Directions (181-185):** In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

181. A round or cylindrical container used storing things such as food, chemicals or rolls of film



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- (a) tankard (b) vessel  
(c) canister (d) casket
182. A place of permanent residence  
(a) abode (b) dormitory  
(c) domicile (d) apartment
183. That cannot be altered or withdrawn  
(1) irrevocable (b) irretrievable  
(c) irrefutable (d) irresistible
184. Money paid to employees on retirement  
(a) gratuity (b) gift  
(c) pension (d) arrears
185. A place where clothes are kept  
(a) closet (b) drawer  
(c) wardrobe (d) cupboard

**Directions (186-190):** In the following questions four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word as your answer.

186. (a) garulous (b) garrulous  
(c) garullous (d) garrullous
187. (a) marquee (b) markue  
(c) marnuei (d) marquie
188. (1) puissant (b) puiscant  
(c) puiscent (d) puissant
189. (a) disconncting  
(b) disconserting  
(c) discuncerting (d) disconcerting
190. (a) exilarate (b) exsilerate  
(c) exsilarate (d) exhilarate

**Directions (191-200):** In the following questions, you have two brief passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives.

#### **PASSAGE -I**

#### **(Question Nos. 191 to 195)**

Stuck with be development dilemma? Stay away from management courses. Seriously, one of the biggest complaints that organisations have about management courses is that they fail to impact the participants' on-the-job behaviour. Some management trainers stress the need for follow-up and reinforcement on the job. Some go so far as briefing the participants' managers on

what behaviour they should be reinforcing back on the job. Others include a follow-up training day to review the progress of the participants. None of this is really going far enough.

The real problem is that course promoters view development as something which primarily, takes place in a classroom. A course is an event and events are, by definition limited in time. When you talk about follow-up after a course, it is seen as a nice idea, but not as an essential part of the participants' development programme. Any rational, empowered individual should be able to take what has been learnt in a course and transfer it to the work place or so the argument goes. Another negative aspect of the course mindset is that, primarily, development is thought to be about skill-acquisition.

So, it is felt that the distinction between taking the course and behaving differently in the work place parallels the distinction between skill-acquisition and skill-application. But can such a sharp distinction be maintained? Skills are really acquired only in the context of applying them on the job, finding them effective and therefore, reinforcing them.

The problem with courses is that they are events, while development is an on-going process which, involves, within a complex environment, continual interaction, regular feedback and adjustment. As we tend to equate development with a one-off event, it is difficult to get seriously motivated about the follow-up. Anyone paying for a course tends to look at follow-up as an unnecessary and rather costly frill.

191. What is the passage about?  
(a) personal management  
(b) development dilemma  
(c) management courses  
(d) course promoters' attitude
192. Which of the following statements is false?  
(a) Some management trainers stress the need for follow-up and reinforcement on the job

- (b) Some suggest a follow-up training day to review the progress of the participants  
(c) Some go to the extent of briefing the participants' managers on what behaviour they should be reinforcing back on the job  
(d) The real problem is that course promoters view development as 'something which does not take place during a course
193. The writer's attitude, as reflected in the passage, is  
(a) critical (b) ironic  
(c) sympathetic  
(d) philosophical
194. The course promoters' attitude is  
(a) self-righteous  
(b) indifferent (c) easy-going  
(d) unprogressive
195. The words 'mindset' here means  
(a) determined mind  
(b) a (fixed) attitude of mind  
(c) an open mind (d) mindful

#### **PASSAGE II**

#### **(Question Nos. 196 to 200)**

One may look at life, events, society, history, in another way. A way which might, at a stretch, be described as the Gandhian way, though it may be from times before Mahatma Gandhi came on the scene. The Gandhian reaction to all the grim poverty, squalor and degradation of the human being would approximate to effort at self-change and self-improvement, to a regime of living regulated by discipline from within. To change society, the individual must first change himself. In this way of looking at life and society, words too begin to mean differently. Revolution, for instance, is a term frequently used, but not always in the sense it has been in the lexicon of the militant. So also with words like peace and struggle. Even society may mean differently, being some kind of organic entity for the militant, and more or less a sum of individuals for the



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Gandhian. There is yet another way, which might, for want of a better description, be called the mystic. The mystic's perspective measures these concerns that transcend political ambition and the dynamism of the reformer, whether he be militant or Gandhian. The mystic measures the terror of not knowing the remorseless march of time; he seeks to know what was before birth, what comes after death. The continuous presence of death, of the consciousness of death, sets his priorities. and values: militants and Gandhians kings and prophets must leave all that they have built; all that they have un-built and depart when messengers of the buffalo-riding Yama come out of the shadows. Water will to water, dust to dust. Think of impermanence. Everything passes.

196. The Gandhian reaction to poverty is  
 (a) a total war on poverty  
 (b) self-discipline  
 (c) self-abnegation  
 (d) a regulated distribution of wealth
197. According to Gandhianism, the individual who wants to change society  
 (a) should destroy the existing society  
 (b) must re-form society  
 (c) must change himself  
 (d) may change society without changing himself
198. Who, according to the passage, finds new meaning for words like revolutions, peace and struggle?  
 (a) A Gandhian who believes in nonviolent revolution  
 (b) A militant  
 (c) A mystic  
 (d) A Gandhian who disciplines himself from within
199. The expression 'water will to water, dust to dust' means  
 (a) water and dust can mix well  
 (b) man will become water after death  
 (c) man will one day die and become dust  
 (d) man will become dust and water after death
200. What does society mean to a Gandhian?  
 (a) a sum of individuals  
 (b) an organic entity  
 (c) a regime of living regulated by discipline from within  
 (d) a disciplined social community

## ANSWERS

1.(d)	2.(c)	3. (a)	4.(b)	5. (a)	6. (d)	7. (c)	8. (c)	9. (c)	10. (d)
11. (a)	12. (d)	13. (b)	14. (c)	15. (d)	16. (a)	17. (b)	18. (c)	19. (d)	20. (c)
21. (b)	22. (c)	23. (b)	24. (d)	25. (b)	26. (a)	27. (b)	28. (d)	29. (b)	30. (c)
31. (b)	32. (d)	33. (d)	34. (a)	35. (a)	36. (a)	37. (c)	38. (d)	39. (c)	40. (b)
41. (d)	42. (c)	43. (b)	44. (c)	45. (c)	46. (c)	47. (c)	48. (d)	49. (b)	50. (b)
51. (c)	52. (b)	53. (c)	54. (*)	55. (b)	56. (c)	57. (b)	58. (a)	59. (d)	60. (c)
61. (d)	62. (b)	63. (d)	64. (c)	65. (b)	66. (d)	67. (d)	68. (a)	69. (c)	70. (a)
71. (b)	72. (b)	73. (c)	74. (a)	75. (c)	76. (b)	77. (a)	78.(a)	79. (c)	80. (d)
81. (c)	82. (a)	83. (c)	84. (c)	85. (a)	86. (b)	87. (d)	88. (d)	89. (d)	90. (c)
91. (a)	92. (b)	93. (a)	94. (a)	95. (b)	96. (c)	97. (b)	98. (d)	99. (a)	100. (c)
101. (c)	102.(b)	103. (b)	104. (c)	105. (a)	106. (c)	107. (d)	108. (c)	109. (b)	110. (b)
111. (c)	112. (b)	113. (a)	114. (a)	115. (a)	116. (d)	117. (a)	118. (c)	119. (b)	120. (d)
121. (d)	122. (b)	123. (a)	124. (b)	125. (a)	126. (b)	127. (b)	128. (c)	129. (b)	130. (c)
131. (d)	132. (c)	133. (b)	134. (b)	135. (a)	136. (c)	137. (a)	138. (a)	139. (*)	140. (a)
141. (b)	142. (d)	143. (a)	144. (a)	145. (a)	146. (c)	147. (a)	148. (c)	149. (*)	150. (c)
151. (b)	152. (b)	153. (b)	154. (b)	155. (a)	156. (c)	157. (c)	158. (a)	159. (c)	160. (d)
161. (b)	162. (c)	163.(d)	164. (c)	165. (a)	166. (a)	167. (d)	168. (b)	169. (a)	170. (c)
171. (c)	172. (a)	173. (c)	174.(d)	175. (b)	176.(a)	177. (b)	178. (a)	179. (b)	180. (c)
181. (b)	182. (a)	183. (a)	184. (a)	185. (c)	186. (b)	187. (a)	188. (a)	189. (d)	190. (d)
191. (b)	192. (d)	193. (a)	194. (d)	195. (b)	196. (b)	197. (c)	198. (d)	199. (d)	200. (a)



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