

# SSC CGL Examination

## Grand Test

Questions: 200

Time: 2 hours

Max marks: 200

- Which one of the given responses would be in the meaningful order among the following?
    - Rain
    - Sunlight
    - Vapour
    - Cloud

a) 2, 3, 4, 1      b) 4, 1, 2, 3  
c) 2, 3, 1, 4      d) 3, 2, 4, 1
  - Arrange the following words as per order in the English dictionary:
    - Activity
    - Attention
    - Arise
    - Absent

a) 3, 2, 1, 4      b) 4, 1, 3, 2  
c) 4, 3, 2, 1      d) 2, 3, 4, 1
  - Which one set of letters when sequentially placed at the gaps in the given letters series shall complete it ?  
ba\_abab\_b\_ba\_aba  
a) bbaa    b) abab    c) aabb    d) baab
  - In the following letter series, how many PQS occur in such a way that Q is in the middle and P and S are on any one side?  
MDRPQGKPKQSLAPQSTGKPKQGMGDPQSTU  
a) 1      b) 2      c) 3      d) 4
  - Find out the set among the four sets which is like the given set.  
Given set is (63, 54, 45)  
a) (36, 45, 33)    b) (29, 20, 11)  
c) (30, 21, 11)    d) (28, 17, 8)
- Directions:** From question no.6 to 8, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
- 0, 6, 20, 42, ?  
a) 76      b) 82      c) 81      d) 72
  - ZIP, WIP, TIP, ?  
a) SIP      b) PIP      c) RIP      d) QIP
  - 10, 18, 28, 40, 54, 70, ?  
a) 88      b) 85      c) 86      d) 87
  - If INTERNET is written as 14325423 and DISTANCE is written as 61738492, then what will CENTRE be written as?  
a) 291534      b) 124576  
c) 924352      d) 852431
  - If B = 2, BAG = 10, then BOX = ?  
a) 39      b) 41      c) 52      d) 36
  - If DISC is coded as 8749 and ACHE is coded as 3950, then HEAD is coded as  
a) 5308    b) 3508    c) 3805    d) 5038
  - If January 1<sup>st</sup> is Friday, what is the first day of the month of March, in a leap year?  
a) Wednesday      b) Thursday  
c) Friday      d) Tuesday
  - Barun is taller than Sanjay. Bipul is taller than Barun. Krishna is also not as tall as Bipul, but is taller than Barun. Who is the tallest?  
a) Bipul      b) Krishna  
c) Sanjay      d) Barun
  - Rajan is younger than his father by 20 yrs. 5 yrs ago his father was 3 times elder than him. Find the present age of his father.  
a) 30 yrs      b) 35 yrs  
c) 36 yrs      d) 25 yrs
  - Sunita is the 11<sup>th</sup> from either end of a row of girls. How many girls are there in that row?  
a) 20      b) 21      c) 22      d) 19
  - From the given alternatives select the word which cannot be formed using the letters of the given word.  
PUNISHMENT  
a) PEST      b) PUSH  
c) NAME      d) MINT
  - In a certain code 'CALANDER' is written 'CLANAEDR'. How is 'CIRCULAR' written in that code?

- a) CRIUCALR                      b) CRIUCLRA  
c) CRIARLCU                      d) ICCRLURA

18. Some capital letters are given below in the first line and numbers are assigned to each of them in the second line. The numbers are the codes for the letters and vice-versa.

M O E A S J T Z  
3 5 7 6 2 9 4 0

Choose the correct number code from the given set of letters.

E A S T

- a) 7 6 2 3                              b) 7 6 2 4  
c) 7 6 2 5                              d) 7 6 2 0

19. From the given alternatives select the word which can be formed using the letters given in the word.

COMPANIONSHIP

- a) OPIUM                              b) OPINION  
c) NATION                              d) OPEN

20. A is fatter than B who is thinner than C. D is thinner than A but fatter than C. Two other men are fatter than A. Who is the thinnest?

- a) B                      b) C                      c) D                      d) A

21. 5 years ago a father was 4 times that of his son in age and 5 years hence, father will be 2 times that of his son. Find their present ages.

- a) 30, 10                              b) 25, 10  
c) 40, 15                              d) 35, 7

**Directions:** Statements followed by two conclusions have been given. Find which of the following options are correct.

- (a) If only conclusion I follows  
(b) If only conclusion II follows  
(c) Neither I nor II follows  
(d) Both I & II follows

22. **Statement:**

Industrial Revolution which first of all started in Europe has brought about modern age.

**Conclusions:**

- I. Disparity between rich and poor results in revolution.  
II. Revolution overheals society.

23. A family has a man, his wife, their 4 sons and their wives. The family of every son also have 3 sons and one daughter each. Find out the total number of male members.

- a) 1                      b) 12                      c) 4                      d) 17

24. A, P, R, X, S and Z are sitting in a row. S is sitting between X and Z, and A and P are at the ends. R is sitting on the left of A. Then who is on the right of P?

- a) Z                                      b) X  
c) S                                      d) None of these

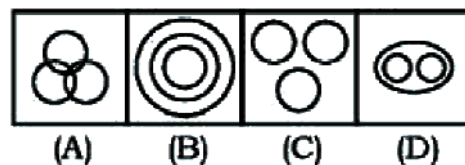
25. A and B are sisters, R and S are brothers. A's daughter is R's sister. What is B's relation to S?

- a) Mother                              b) Grandmother  
c) Sister                              d) Aunt

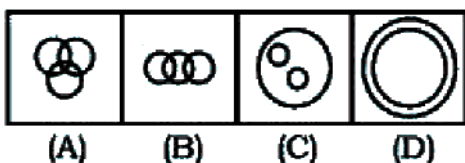
26. Mira starts at point T, walks straight to point U which is 4 ft. away. She turns left, at 90° and walks to W which is 4 ft. away, turns 90° right and goes 3 ft. to P, turns 90° right and walks 1 ft. to Q, turns left at 90° and goes to V, which is 1 ft. away and once again is 1 ft. away and once again turns 90° right goes to O, 3 ft. away. What is the distance between T and O?

- a) 4 ft.                      b) 5 ft.                      c) 7 ft.                      d) 8 ft.

27. Which of the diagrams given below correctly represents the relationship among husband, wife and family?



28. Which of the diagrams given below correctly represents the students who learn law and music, music and dance, law and dance and law, music and dance?



29. Which one of the given responses is in a meaningful order among the following?

- 1. Twilight
- 2. Dawn
- 3. Noon
- 4. Night
- a) 2, 1, 3, 4
- b) 2, 3, 1, 4
- c) 1, 2, 3, 4
- d) 1, 3, 2, 4

30. Arrange the following words as per order in the dictionary

- 1. Aqueous
- 2. Aquarium
- 3. Aquiline
- 4. Aquatic
- a) 4,3, 2, 1
- b) 1, 2, 3, 4
- c) 2, 4, 1, 3
- d) 3, 1, 4, 2

31. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

mc\_m\_a\_ca\_ca\_c\_mc

- a) a c m m m a
- b) c a m c a m
- c) a a a c m m
- d) a c m m m c

**Directions:** From question no.32 to 34, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

32. AMN, BOP, CQR, ?

- a) BAS
- b) DST
- c) EQP
- d) FRS

33. 5, 6, 9, 14, 21, ?

- a) 28
- b) 30
- c) 31
- d) 29

34. 4, 11, 30, 67, 128, ?

- a) 219
- b) 228
- c) 231
- d) 237

35. If the day before yesterday was Wednesday, when will Sunday be?

- a) Today
- b) Tomorrow
- c) Day after tomorrow
- d) Two days after tomorrow

36. Lakshmi is elder than Meenu. Leela is elder than Meenu but younger than Lakshmi. Latha is younger than both Meenu and Hari but Hari is younger than Meenu. Who is the youngest?

- a) Lakshmi
- b) Meenu
- c) Leela
- d) Latha

37. Nikhil is 8 years younger than his brother Rohan. How old will Rohan be when he is twice as old as Nikhil?

- a) 4
- b) 6
- c) 8
- d) 16

38. In a row of letters, a letter is 5th from left end and 12th from the right end. How many letters are there is a row?

- a) 15
- b) 16
- c) 17
- d) 18

39. Which one of the answer figures shall complete the given question figure?

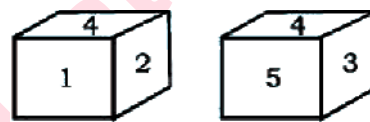
**Question figure**



**Answer figure**



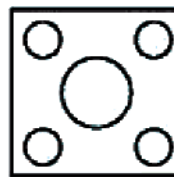
40. Two positions of a dice are shown below: When 3 is at the bottom, which number is at the top?



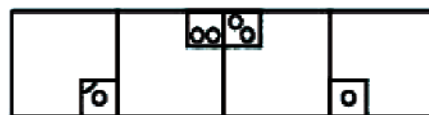
- a) 4
- b) 5
- c) 2
- d) 1

41. A square paper is folded in a particular manner and punches are made. When unfolded the paper appears as given below. Find out the manner in which the paper was folded and punches were made.

**Question figure**



**Answer figures**



42. A word is represented by only set of numbers as given in any of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the 2 matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II from 5 to 9.

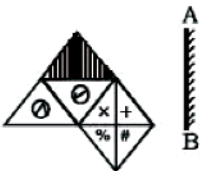
MATRIX-I					MATRIX-II						
	0	1	2	3	4		5	6	7	8	9
0	B	D	E	T	O	5	M	U	I	L	R
1	D	E	T	O	B	6	U	L	M	R	I
2	E	B	O	D	T	7	I	M	R	U	L
3	T	O	B	E	D	8	L	R	U	I	M
4	O	T	D	B	E	9	R	I	L	M	U

A letter from these matrices can be column number. Eg. 'M' can be represented by 55, 67, etc. Similarly identify the set for the word RULE.

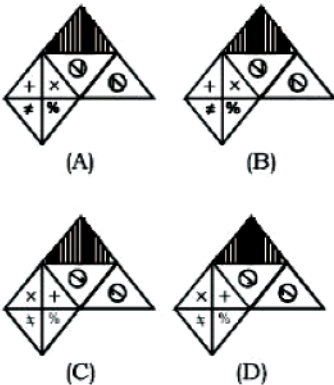
- a) 56, 66, 10, 23                      b) 59, 99, 97, 11  
 c) 77, 56, 02, 01                      d) 95, 87, 42, 12

43. Find the mirror images.

Questions Figure



Answer Figures



44. Find the water image

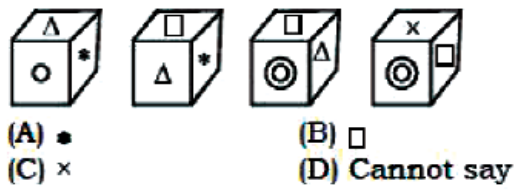
Questions Figure



Answer Figures

- (A) 3̂#f̂r̂ẑl̂â3̂      (B) 3̂âl̂ẑr̂f̂#̂ŷ̂ŝ  
 (C) 5̂ŷ̂#̂f̂r̂ẑl̂â3̂      (D) 2̂ŷ̂#̂f̂r̂ẑl̂â3̂

45. Four forms of a dice have been given, which item is opposite of 'Δ'.

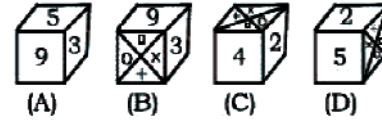


46. Figure given below shows opened shape of a hollow dice. After folding this dice, which of the following option shows the true answer figure.

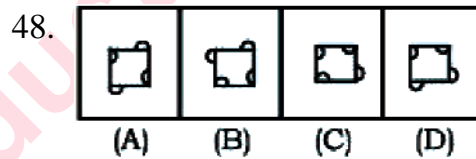
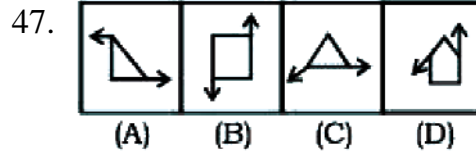
Question figure:



Answer figure:



Directions (47-48): Find the odd figure box in the given group of figure boxes.



Directions (49-50): Statement/statements followed by two conclusions have been given. Find which of the following options are correct.

Give Answer:

- (a) If only conclusion I follows  
 (b) If only conclusion II follows  
 (c) Neither I nor II follows  
 (d) Both I & II follow

49. Statement:

Video libraries are flourishing very much these days.

Conclusions:

- I. People in general have got a video craze.  
 II. It is much cheaper to see, as many movies as one likes on videos rather than going to the Cinema hall.

50. Statements:

All books are tables.  
 All books are chairs.

Conclusions:

- I. Some chairs are tables.  
II. All chairs are books.
51. Which were the earliest cereals grown by man?  
a) Wheat and barley    b) Growing grain  
c) Millets                      d) Maize
52. The Ain-i-Akbari was written by  
a) Farishta                      b) Ibn Battuta  
c) Abul Fazl                      d) Birbal
53. Which one of the following is NOT common in Buddhism and Jainism?  
a) Non-violence (Ahimsa)  
b) Indifference to Vedas  
c) Self-mortification  
d) Rejection of rituals
54. Who among the following sultans was advised by Qazi Mughisuddin to act according to the laws of Shariat, but the Sultan rejected his advice?  
a) Alauddin Khilji  
b) Jalaluddin Khilji  
c) Mohammad-bin-Tughlaq  
d) Firoz Tughlaq
55. The last major extension of British Indian territory took place during the time of  
a) Dufferin                      b) Lytton  
c) Curzon                      d) Minto I
56. How many seats were given to depressed classes under Communal Award and Poona Pact?  
a) 74 and 76 respectively  
b) 71 and 147 respectively  
c) 78 and 80 respectively  
d) 78 and 69 respectively
57. The author of 'Nil Darpan' was  
a) Dinabandhu Mitra  
b) Sivnath Shastri  
c) Debendranath Tagore  
d) Harishchandra Mukherjee
58. Arrange the following historical events in chronological order choosing the correct response:
- I. French Revolution  
II. Glorious Revolution  
III. American War of Independence  
IV. Russian Revolution
- |    |     |     |     |     |
|----|-----|-----|-----|-----|
| a) | I   | II  | III | IV  |
| b) | II  | III | I   | IV  |
| c) | II  | I   | IV  | III |
| d) | III | II  | I   | IV  |
59. Which of the following men do not match with the Committee of the Constituent Assembly?  
a) Credential Committee: Alladi K. Iyer  
b) States Committee: Nehru  
c) Drafting Committee: Ambedkar  
d) Union Constitution Committee: Patel
60. Which of the following is not correctly matched?  
a) Article 14: Equality before law  
b) Article 16: Equality of opportunity in matters of public employment  
c) Article 17: Abolition of titles  
d) Article 18: Permission of military titles
61. Who is incharge of the Cabinet Secretariat?  
a) The Cabinet Secretary  
b) The Prime Minister  
c) The Union Home Minister  
d) The Minister for Parliamentary Affairs
62. One of the following is not a urban local body:  
a) Municipalities  
b) Town area committee  
c) Samitis  
d) Notified area committee
63. The Writ Habeas Corpus is available for  
a) Directing any person, corporation or inferior court to do some particular thing.  
b) The purpose of releasing from illegal custody, persons unlawfully detained.  
c) Direction of Supreme Court to an inferior court to send the records of the pending cases.  
d) Directing the lower court to stop proceedings by a higher court.

64. With reference to the Constitution of India, which one of the following pairs is NOT correctly matched?
- a) Forests: Concurrent List
  - b) Stock Exchange: Concurrent List
  - c) Post Office saving Bank: Union List
  - d) Public Health: State List
65. Assuming the directions similar to those on the earth, which planet/planets will experience a sunrise in the west?
- (i) Mercury                      (ii) Uranus
  - (iii) Saturn                      (iv) Venus
- a) i and ii                      b) ii and iv
  - c) i and iv                      d) iii and iv
66. Which one of the following best describes the world distribution of active and recently active volcanoes?
- a) They are found in association with young fold mountain chains.
  - b) They occur in river flood plains.
  - c) They are associated with old eroded mountain chains.
  - d) They are located on the western sides of continents.
67. Although fog consists of fine drops of water, we cannot see clearly through it because
- a) The light rays undergo total internal reflection in the drops.
  - b) Fine drops of water in fog polarize the light.
  - c) The fine drops are opaque to the light.
  - d) The drops scatter most of the light.
68. In which of the following countries, has maximum damage to the forests been caused by acid rain?
- a) Spain                      b) Netherlands
  - c) Poland                      d) Italy
69. The American cotton textile industry moved from New England to the Southern States because:
- a) The latter have a more humid climate.
  - b) New England diversified its manufacturing industries.
  - c) The population growth in the south provided a major market.
  - d) The south offered lower cost of production.
70. The region which has monthly rainfall of 10-20 cm in October and November and less than 5 cm for the rest of the month, belong to which of the following states:
- a) Karnataka
  - b) Tamil nadu
  - c) Orissa and West Bengal
  - d) Assam
71. Selling cost is an element of
- a) Monopolistic Competition
  - b) Perfect Competition
  - c) Pure Competition
  - d) Monopoly
72. The opportunity cost of a factor of production is
- a) What it earns in its present use.
  - b) What it can earn in the long period.
  - c) What it can earn in some other use
  - d) The cost of production.
73. The demand for a product which is wanted for itself is known as
- a) Derived Demand
  - b) Industry Demand
  - c) Company Demand
  - d) Direct or Autonomous Demand
74. India has recorded a positive balance of payment on current account in recent years. Which of the following can be a possible explanation for this?
- a) Strong software exports
  - b) Healthy flow of remittances
  - c) Contraction in imports
  - d) All the above
75. Which country had the largest share of FDI in India during the last decade?
- a) Mauritius                      b) USA
  - c) Japan                      d) UK
76. The 'Dual Economy' is a mixture of
- a) Traditional agriculture sector and modern industrial sector.
  - b) Industrial sector and manufacturing



- b) It is a fundamental particle  
c) It does not mive  
d) It does not carry any charge
93. A gas which burns with blue flame is  
a) CO      b) O<sub>2</sub>      c) N<sub>2</sub>      d) CO<sub>2</sub>
94. Important ore of Mg is  
a) Magnatide                      b) Carnotite  
c) Gypsum                         d) Carnallite
95. Carbon black is obtained when methane is  
a) Heated in absence of air  
b) Heated in presence of nitrogen  
c) Heated in presence of ammonia  
d) Heated with steam
96. Region of the Earth that is extremely biologically diverse and also under severe threat due to habitat loss, climate change or extensive species loss is:  
a) Threatened  
b) Endangered  
c) Critically endangered  
d) Biodiversity hotspot
97. During the growth of a tomato plant from a seed, it increases considerably in biomass. Which of the following materials, obtained from the environment, are necessary for the growth and increase in biomass?  
a) Carbon dioxide and water.  
b) Carbon dioxide, oxygen, and nitrogen.  
c) Water, nitrate, and methane  
d) Water, carbon dioxide, and mineral salts.
98. Which among the following is the wettest state capital in 2014?  
a) Guwahti                      b) Aizawi  
c) Dehradun                      d) Panji
99. MNREGA has provided an average of 40-50 days of employment per year to about \_\_\_\_\_ percent of all rural households making it the largest public works programme in India's history.  
a) 15      b) 25      c) 35      d) 45
100. Who has been elected new president of Georgia on October 27th, 2013?  
a) Emmomali Rakhmon  
b) Abdulla Yameen  
c) Giorgi Margvelashvili  
d) Mikheil Saakashvili
101. A reduction of 20% in the price of rice enables a customer to purchase 12.5 kg more for Rs. 800. The original price of rice per kg is  
a) Rs.15      b) Rs. 14      c) Rs.16      d) Rs. 12
102. In two alloys A and B, the ratio of Zinc to Tin is 5:2 and 3:4 respectively. 7 kg of the alloy A and 21 kg of the alloy B are mixed together to form a new alloy. What will be the ratio of Zinc and Tin in the new alloy?  
a) 1:1      b) 2:1      c) 1:2      d) 2:3
103. If  $\frac{1}{a} - \frac{1}{b} = \frac{1}{a-b}$ , then the value of  $a^3 + b^3$  is  
a) 2      b) 0      c) -1      d) 1
104. If  $a^2 + b^2 + c^2 = ab + bc + ca$ , then  $\frac{a+c}{b}$  is equal to  
a) 4      b) 1      c) 2      d) 3
105. If the graphs of the equations  $x + y = 0$  and  $5y + 7x = 24$  intersect at (m, n), then the value of  $m + n$  is  
a) -1      b) 2      c) 1      d) 0
106. The average age of a class of 35 students is 15 years. If the teacher's age is also included the average age increased by one year. Further more, if the average age of the teacher's family having a wife and a son is 40 years and the son's age is 80% less than his mother's age, then the age of the teacher's wife is  
a) 55.5 years                      b) 57.5 years  
c) 50 years                         d) 47.5 years
107. If the amount is  $3\frac{3}{8}$  times the sum after 3 years at compound interest compounded annually, then the rate of interest per annum is



- a)  $33\frac{1}{3}\%$                       b) 25%
- c) 50%                              d)  $16\frac{2}{3}\%$
108. A shopkeeper sells an article at 15% gain. Had he sold it for Rs. 18 more, he would have gained 18%. The cost price (in Rs.) of the article is  
a) 350      b) 540      c) 318      d) 600
109. A cloth merchant on selling 33 metres of cloth obtains a profit equal to the selling price of 11 metres of cloth. The profit is  
a) 11%      b) 40%      c) 22%      d) 50%
110. A single discount equivalent to successive discounts of 20%, 10% and 5% is  
(a) 36.1%                      (b) 35%  
(c) 35.6%                      (d) 31.6%
111. If  $6x - 5y = 13$ ,  $7x + 2y = 23$ , then  $11x + 18y =$   
a) 15      b) -15      c) 51      d) 33
112. If  $x + y + z = 13$  and  $x^2 + y^2 + z^2 = 69$ , then the value of  $xy + z(x + y)$  is equal to  
a) 60      b) 70      c) 40      d) 50
113. Two trains, of same length, are running in parallel tracks in the same direction with speed 60 km/hour and 90 km/hour respectively. The latter completely crosses the former in 30 seconds. The length of each train (in metres) is  
a) 115      b) 125      c) 150      d) 100
114. ABC is an isosceles triangle with  $AB = AC$ . The side BA is produced to D such that  $AB = AD$ . If  $\angle ABC = 30^\circ$ , then  $\angle BCD$  is equal to  
a)  $60^\circ$       b)  $45^\circ$       c)  $90^\circ$       d)  $30^\circ$
115. ABCD is a trapezium, in which  $AB \parallel DC$  and  $AB = 2CD$ . The diagonals AC and BD meet at O. The ratio of areas of triangles AOB and COD is  
a) 1:4      b) 1:2      c)  $1:\sqrt{2}$       d) 4:1
116. PQ is a chord of length 8cm, of a circle with centre O and of radius 5 cm, The tangents at P and Q intersect at a point T. The length of TP is  
a)  $\frac{15}{4}$  cm                      b)  $\frac{20}{3}$  cm  
c)  $\frac{21}{4}$  cm                      d)  $\frac{10}{3}$  cm
117. The area of the triangle formed by the graphs of  $3x + 4y = 12$ , x-axis and y-axis (in sq. units) is  
a) 8      b) 4      c) 12      d) 6
118. If  $x = \sqrt[3]{2 + \sqrt{3}}$ , then the value of  $x^3 + \frac{1}{x^3}$  is  
a) 4      b) 8      c) 9      d) 12
119. The side QR of an equilateral triangle PQR is produced to the point S in such a way that  $QR = RS$  and P is joined to S. Then the measure of  $\angle PSR$  is  
a) 450      b) 300      c) 150      d) 600
120. Three solid iron cubes of edges 4 cm, 5 cm and 6 cm are melted together to make a new cube. 62 cm<sup>3</sup> of the melted material is lost due to improper handling. The area (in cm<sup>2</sup>) of the whole surface of the newly formed cube is  
a) 216      b) 294      c) 343      d) 125
121. The difference between the simple interest received from two different sources on Rs. 1500 for 3 yrs is Rs. 13.50. The difference between their rate of interest is  
a) 0.1%      b) 0.3%      c) 0.2%      d) 0.4%
122. If  $x = \frac{\sqrt{3}}{2}$ , then the value of  $\left( \frac{\sqrt{1+x} + \sqrt{1-x}}{\sqrt{1+x} - \sqrt{1-x}} \right)$  will be  
a)  $-\sqrt{3}$       b) -1      c) 1      d)  $\sqrt{3}$
123. Two men are standing on opposite ends of bridge of 1200 metres length. If they walk towards each other at the rate of 5 m/min and

10 m/min respectively, in how much time will they meet each other?

- a) 60 minutes                      b) 80 minutes  
c) 85 minutes                      d) 90 minutes

124. The numerator and denominator of a fraction are in the ratio of 2:3. If 6 is subtracted from the numerator, the result is a fraction that has a value  $\frac{2}{3}$  of the original fraction. The numerator of the original fraction is

- a) 6                      b) 18                      c) 27                      d) 36

125. If  $(x - 2)$  is a factor of  $x^3 - 2bx^2 + bx - 1$ , then find the value of  $b$ .

- a)  $\frac{1}{6}$                       b)  $\frac{5}{6}$                       c)  $\frac{7}{6}$                       d)  $\frac{4}{3}$

126. For what value of 'm' will the system  $a + 2b - 3 = 0$ ;  $5a + mb + 7 = 0$ , have no solution.

- a) 10                      b) 8                      c) 6                      d) 5

127. If  $-2\sqrt{3}$  is a root of the equation  $x^2 + px - 6 = 0$  and the equation  $x^2 + px + q = 0$  has equal roots, then find 'q'.

- a)  $\frac{2}{3}$                       b)  $\frac{3}{4}$                       c)  $\frac{1}{4}$                       d)  $\frac{5}{4}$

128. Find the number of integers between 200 and 2000 that are divisible by 7.

- a) 256                      b) 258                      c) 263                      d) 257

129. What must be the side of an equilateral triangle so that its area may be equal to the area of an isosceles triangle whose base and equal sides are 12 m and 10 m respectively?

- a) 10.3 m                      b) 10.2 m  
c) 10.5 m                      d) 10.8 m

130. Find the area of a quadrilateral whose one of the diagonals is 50m and the lengths of perpendiculars from the other two vertices are 29 m and 21 m respectively.

- a)  $1150 \text{ m}^2$                       b)  $1250 \text{ m}^2$

- c)  $1050 \text{ m}^2$                       d)  $1125 \text{ m}^2$

131. If the lengths of the three sides of a triangle are 6 cm, 8 cm and 10 cm, then the length of the median to its greatest side is

- a) 8 cm                      b) 6 cm                      c) 5 cm                      d) 4.8 cm

132. The circumcentre of a triangle ABC is O. If  $\angle BAC = 85^\circ$  and , then the value of  $\angle OAC$  is

- a)  $40^\circ$                       b)  $60^\circ$                       c)  $70^\circ$                       d)  $90^\circ$

133. ABC is a triangle with base AB. D is a point on AB such that  $AB = 5\text{cm}$  and  $DB = 3\text{cm}$ . What is the ratio of the area of  $\triangle ADC$  to the area of  $\triangle ABC$ ?

- a)  $\frac{2}{5}$                       b)  $\frac{2}{3}$                       c)  $\frac{3}{2}$                       d)  $\frac{3}{5}$

134. The base radii of two cylinders are in the ratio 2:3 and their heights are in the ratio 5:3. The ratio of their volumes is

- a) 27:20                      b) 20:27                      c) 9:4                      d) 4:9

135. A cuboidal water tank has 216 litres of water. Its depth is  $\frac{1}{3}$  of its length and

breadth is  $\frac{1}{2}$  of  $\frac{1}{3}$  of the difference of length

and depth. The length of the tank is

- a) 72 dm                      b) 6 dm                      c) 2 dm                      d) 18 dm

**Directions (136-140):** The following questions are based on the table given below which represents the distance (in km) travelled by two persons A and B in the same direction:

Hour		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>
Distance Travelled (in km)	by A	20	30	20	15	25	15	25	35	20	30
	by B	25	40	35	25	35	10	25	15	25	45

136. B's average speed (in km/hr) during the first four hours is

- a) 21.25                      b) 22  
c) 31.25                      d) 32

137. The ratio of A's average speed during the first five hours and the last five hours is  
 a) 25:22                      b) 22:25  
 c) 15:22                      d) 20:21
138. What is the distance (in km) between A and B at the end of the 8th hour?  
 a) 30            b) 25            c) 15            d) 12
139. The distance between A and B is maximum at the end of  
 a) 2 hours                      b) 3 hours  
 c) 4 hours                      d) 5 hours
140. The difference between the A's average speed and B's average speed is  
 a) 45 km/hr                      b) 4.5 km/hr  
 c) None of these  
 d) Can't be determined
141. If  $2x + 3y : 3x + 5y = 18 : 29$ , then  $\frac{x}{y}$  is equal to  
 a)  $\frac{3}{4}$             b)  $\frac{4}{3}$             c)  $\frac{2}{3}$             d)  $\frac{5}{6}$
142.  $\sqrt{\frac{0.081 \times 0.324 \times 4.624}{1.5625 \times 0.0289 \times 72.9 \times 64}}$  is  
 a) 24            b) 2.4            c) 0.024            d) 2.04
143. In a particular type of alloy the ratio of Lead to Tin is 5:6. The amount of Lead should be added to 12.1 kg of this material to make the ratio 1:1 is  
 a) 1.1 kg                      b) 1 kg  
 c) 0.9 kg                      d) 1.5 kg
144. If the average of  $m$  numbers is  $n^2$  and that of  $n$  numbers is  $m^2$ , then the average of  $(m+n)$  numbers is  
 a)  $\frac{m}{n}$             b)  $mn$             c)  $m - n$             d)  $m + n$
145. The simple interest at  $x\%$  for  $x$  years will be Rs.  $x$  on a sum of  
 a) Rs.  $x$                       b) Rs.  $100x$   
 c) Rs.  $\frac{100}{x}$                       d) Rs.  $\frac{100}{x^2}$
146. A shopkeeper sells an article at a loss of  $12\frac{1}{2}\%$ . Had he sold the article for Rs. 51.80 more, he would have earned a profit of 6%. The cost price of the article is  
 a) Rs. 280                      b) Rs. 580  
 c) Rs. 370                      d) Rs. 450
147. The cost price of 18 articles is equal to the selling price of 15 articles. The gain is  
 a) 25%            b) 20%            c) 18%            d) 15%
148. Successive discounts of 50% and 50% is equivalent to  
 a) 100%            b) 75%            c) 50%            d) 25%
149. A, B, C enter into a partnership with shares in the ratio  $\frac{7}{4} : \frac{4}{3} : \frac{6}{5}$ . After 4 months, A increases his share by 50%. If his total profit at the end of the year was Rs. 43,200, then the B's share in the profit is  
 a) Rs. 4,200                      b) Rs. 4,800  
 c) Rs. 7,200                      d) Rs. 8,000
150. Two trains of some length, are running on parallel tracks in opposite directions with speed 65 km/hour and 85 km/hour respectively. They cross each other in 6 seconds. The length of each train is  
 a) 100 metre                      b) 115 metre  
 c) 125 metre                      d) 150 metre
- Directions (Q. 151 to 152):** Out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it.
151. Impetuous  
 a) Disturbing                      b) Impious  
 c) Impressive                      d) Hasty
152. Evade  
 a) Avoid                      b) Vacate  
 c) Cheat                      d) Pretend
- Directions (Q. 153 to 154):** Choose the word opposite in meaning to the given word and mark it.

153. Indomitable

- a) Cowardly                      b) Adamant  
c) Certain                         d) Arrogant

154. Felicity

- a) Infidelity                      b) Innocence  
c) Sorrow                         d) Mimicry

**Directions (Q. 155 to 156):** Four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark it.

155. a) Acquaintance              b) Acquaintence  
c) Acquintance                 d) Acquiantance

156. a) Detiorrate                  b) Deteriarate  
c) Deteriorate                  d) Detireorate

**Directions (Q. 157 to 159):** 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 it.

157. The member took exception to the secretary's remark about the current political situation in the State.

- a) Granted                         b) Accepted readily  
c) Laughed at                     d) Objected to

158. The die is cast and nothing can be done now.

- a) The decision has been taken  
b) The game has been played  
c) There has been a failure  
d) The effect has worn out

159. He is in the habit of picking holes in everything

- a) Asking questions about  
b) Delving deep into  
c) Finding fault with  
d) Causing trouble to

**Directions (Q. 160 to 162):** Out of the four alternatives, choose the one which can be substituted for the given words/sentence.

160. A person who lives by himself.

- a) Recluse                         b) Extrovert

c) Prophet                         d) Monk

161. A medicine to nullify the effect of poison.

- a) Antigen                         b) Antidote  
c) Anticlimax                     d) Antibody

162. An assembly of worshippers.

- a) Conflagration                 b) Configurisation  
c) Confrontation                 d) Congregation

**Directions (Q. 163 to 164):** A part of the sentence is underlined. Below are given alternatives to the underlined part at (a), (b), (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (d).

163. If a man remains as careful as he is in the beginning, there will be no failure

- a) He at the beginning  
b) He was in the beginning  
c) He is the beginning  
d) No improvement

164. Complete the formalities of registration of the workshop before you enter the hall.

- a) Formalities of registration for  
b) Formalities to registering for  
c) Formalities to register for  
d) No improvement

**Directions (Q. 165 to 169):** A sentence has been given in Active/Passive Voice. Out of the four alternative suggested, select the one which best express the same sentences in Passive/Active Voice and mark it.

165. I shall have written the letter.

- a) The letter has been written by me  
b) The letter is being written by me  
c) The letter will have been written by me.  
d) The letter will be written by me

166. We must endure what we cannot cure

- a) What cannot be cured must be endured  
b) What cannot cured must endured  
c) What could be cure must be endured.  
d) What we cure must be endured.

167. A fresh batch of eggs was collected by the farmer's wife
- The farmer's wife collected a fresh batch of eggs.
  - The farmer's wife had collected a fresh batch of eggs.
  - The farmer's wife have collected a fresh batch of eggs.
  - The farmer's wife was collecting a fresh batch of eggs.

168. Then her face was bowed.
- Her face was bowed by then
  - Then she bowed her face
  - Then her face has been bowed
  - Then she was being bowed her face

169. The walls had not been decorated by us.
- We had not been decorating the walls.
  - We have not decorated the walls
  - We had not decorated the walls.
  - We have not been decorated the walls

**Directions (Q. 170 to 177):** In the following questions, some 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, your answer is (d). i.e. No error.

170. The photograph will give (a)/the reader far better (b)/ notion of the structure than any verbal description, (c)/No error (d).
171. He has a scheme (a)/ of his own which he thinks (b)/ more preferable to that of any other person, (c)/No error (d).
172. The results of the recognition (a)/of this fact are seen (b)/in the gradual improvement of the diet of the poor.(c)/No error (d).
173. Scarcely had he gone (a)/when a policeman (b)/knocked at the door, (c)/No error (d).
174. Do not trouble (a)/yourself about writing to me (b)/unless you are quite in the humour for is. (c)/No error (d).

175. We admired the way (a)/he had completed all his work (b)/and appreciating the method adopted by him.(c)/No error (d).
176. Our neighbours had repeated (a)/ the same illogical sequence of activities (b)/if we had not brought the facts to their notice, (c)/No error (d).

177. Not only the judges acquitted (a)/him of all the charges leveled against him, (b)/but also commended all his actions (c)/No error (d).

**Directions (Q. 178 to 182):** A part of the sentence is underlined. Below are given alternatives to the underlined part at (a), (b), (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (d).

178. Later he became unpopular because he tried to lord it on his followers
- To lord it for
  - To lord over
  - To lord it over
  - No correction required
179. The long or short of it is that I do not want to dealwith that new firm.
- The long and short of it
  - The long and short for it
  - The short and long of it
  - No correction required
180. The people generally try to curry favour with the corrupt but influential person.
- Cook favour
  - Seek favour
  - Extract favour
  - No correction required
181. My hair stood off ends when saw the horrible sight.
- Stood at ends
  - Stood on ends
  - Stands on ends
  - No correction required
182. For some days the new professor lectured above the heads of his pupils.
- Over the head of
  - Over the heads of
  - On the heads of
  - No correction required

**Directions (Q. 183 to 187):** You have a passage with 5 questions. Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it.

Many of the serious health concerns in modern America can be linked to poor diet. People who regularly consume foods high in sodium, sugar and saturated fats not only increase their chances of obesity, but also increase their risks of diseases, hypertension, diabetes and several types of cancer. Although some people, who regularly consume unhealthy foods do so knowingly, there is also significant portion of the population that remains under-educated about proper nutrition. What is more is that individuals who live in food deserts—areas in low-income neighbourhoods that lack easy access to healthy, affordable food may not even have the opportunity to obtain nutritious food. Food deserts are located in high-poverty areas, such as sparsely populated rural areas or densely populated, low-income urban centres. Food deserts most often develop when major supermarket chains either relocate out of these areas or simply refrain from building stores there. Major food retailing chains tend to limit their store locations to wealthier urban or suburban neighbourhoods. This means that those who live in high-poverty areas often also live miles away from fresh meats, dairy products and produce available at supermarkets. Further more, fast food restaurants are disproportionately concentrated in low-income areas.

183. Serious health concerns in modern America are related to
- |              |               |
|--------------|---------------|
| a) Smoking   | b) Fast life  |
| c) Poor diet | d) Loneliness |
184. Food deserts are
- Areas having large supermarket chains
  - Low-income areas without access to healthy foods
  - Areas having large-scale plantations
  - Areas not having large number of

restaurants

185. Food deserts are formed when
- Major supermarket chains are unavailable in some areas
  - People do not like eating fresh food
  - People relocate to new areas
  - Most people are undereducated about nutritious food
186. People belonging to low-income group mostly resort to
- Fresh milk and vegetables
  - Gambling
  - Rash driving
  - Fast food
187. The best possible title for the passage is
- Supermarket's Contribution to Obesity in America
  - The Dangers of Fast Food
  - Food Deserts: The problems of Poor Diet
  - Why processed Food kills

**Directions (Q. 188 to 189):** Four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark it.

188. a) Adalotent                      b) Adolascant  
c) Adolescant                      d) Adaloscant
189. a) Sovenir                        b) Souvenir  
c) Suvenir                          d) Suvenior

**Directions (Q. 190 to 192):** 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 it.

190. If you want to solve the problem forever you must take the bull by the horns.
- Pull the bull's horns
  - Face a difficulty or danger boldly.
  - Run away from a difficulty or danger.
  - Face a difficulty or danger confidently
191. Rajib washed his hands of the matter long ago.
- Overcame the difficulties

- b) Refused to accept responsibility for
- c) Took the responsibility
- d) Refused to change the decision

**Directions (Q. 192 to 194):** Out of the four alternatives, choose the one which can be substituted for the given words/sentence.

192. A person who runs away from justice or the law
- a) Refugee
  - b) Martyr
  - c) Fugitive
  - d) Recluse
193. A place where bees are kept
- a) Aviary
  - b) Apiary
  - c) Granary
  - d) Dispensary
194. A hater of women
- a) Bigamist
  - b) Misogynist
  - c) Misanthrope
  - d) Polygynist

**Directions (Q. 195 to 196):** A part of the sentence is underlined. Below are given alternatives to the underlined part as (a), (b), (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (d).

195. The criminal was ordered to be hanged to death.
- a) Hung to death
  - b) Hanged till death
  - c) Hung till death
  - d) No improvement

196. The expert was very interesting in this candidate.
- a) Was having interest
  - b) Was very interested
  - c) Is having interest
  - d) No improvement

**Directions (Q. 197 to 200):** 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 and indicate it

197. Guard \_\_\_\_\_ spelling mistakes.
- a) at
  - b) against
  - c) after
  - d) above
198. Make hay while the sun \_\_\_\_\_.
- a) has been shines
  - b) shines
  - c) is shining
  - d) was shining
199. The Prime Minister insisted \_\_\_\_\_ fuel prices in the Cabinet meeting.
- a) at raising
  - b) to raise
  - c) on raising
  - d) in raising
200. The \_\_\_\_\_ of puppies is fond of milk.
- a) litre
  - b) gang
  - c) litter
  - d) group

**KEY**

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1. A  | 2. B  | 3. D  | 4. C  | 5. B  |
| 6. D  | 7. D  | 8. A  | 9. C  | 10. B |
| 11. D | 12. D | 13. A | 14. B | 15. B |
| 16. C | 17. A | 18. B | 19. B | 20. A |
| 21. B | 22. B | 23. D | 24. D | 25. D |
| 26. D | 27. D | 28. A | 29. B | 30. C |
| 31. A | 32. B | 33. B | 34. A | 35. C |
| 36. D | 37. D | 38. B | 39. A | 40. C |
| 41. A | 42. B | 43. A | 44. D | 45. C |
| 46. D | 47. A | 48. C | 49. D | 50. A |
| 51. A | 52. C | 53. C | 54. A | 55. A |
| 56. B | 57. A | 58. B | 59. D | 60. C |
| 61. D | 62. C | 63. B | 64. B | 65. B |
| 66. A | 67. D | 68. C | 69. D | 70. A |
| 71. D | 72. B | 73. D | 74. D | 75. B |

- |        |        |        |        |        |
|--------|--------|--------|--------|--------|
| 76. A  | 77. D  | 78. D  | 79. C  | 80. B  |
| 81. A  | 82. B  | 83. C  | 84. B  | 85. D  |
| 86. B  | 87. C  | 88. C  | 89. A  | 90. A  |
| 91. C  | 92. D  | 93. D  | 94. D  | 95. A  |
| 96. D  | 97. D  | 98. C  | 99. B  | 100. C |
| 101. C | 102. A | 103. B | 104. C | 105. D |
| 106. B | 107. C | 108. D | 109. D | 110. D |
| 111. C | 112. D | 113. B | 114. C | 115. D |
| 116. B | 117. D | 118. A | 119. B | 120. B |
| 121. B | 122. D | 123. B | 124. B | 125. C |
| 126. A | 127. B | 128. D | 129. C | 130. B |
| 131. C | 132. C | 133. A | 134. B | 135. D |
| 136. C | 137. B | 138. B | 139. D | 140. B |
| 141. A | 142. C | 143. A | 144. B | 145. C |
| 146. A | 147. A | 148. B | 149. D | 150. C |
| 151. D | 152. A | 153. A | 154. C | 155. A |

156. C	157. D	158. A	159. C	160. A	181. B	182. B	183. C	184. B	185. A
161. B	162. D	163. B	164. A	165. C	186. D	187. C	188. C	189. B	190. B
166. A	167. A	168. B	169. C	170. B	191. B	192. C	193. B	194. B	195. B
171. C	172. D	173. D	174. B	175. C	196. B	197. B	198. B	199. C	200. C
176. A	177. A	178. D	179. A	180. D					

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