

Directions—(Q. 1–3) The analogies questions present two **bold** words or phrases that are related in some way. Determine which (A) through (D) answer choice below has a relationship most similar to that of the original words or phrases.

1. **Yawn : Boredom**

- (A) Dream : sleep
(B) Anger : madness
(C) Smile : amusement
(D) Face : expression

2. **Armoury : Weapons**

- (A) Penitentiary : guards
(B) Warehouse : merchandise
(C) Courthouse : laws
(D) Bank : mortgages

3. **Barge : Vessel**

- (A) Cargo : hold
(B) Brake : automobile
(C) Shovel : implement
(D) Squadron : plane

Directions—(Q. 4–6) Against Each Key word are given four suggested meanings. Choose the word or phrase which is **nearly the same** to the key word.

4. **Corroborate**

- (A) Corrosive (B) Corrigendum
(C) Confirm (D) Interesting

5. **Knave**

- (A) Errant
(B) Signify
(C) Novice
(D) Dishonest person

6. **Horrendous**

- (A) Dreadful (B) Criminal
(C) Stupid (D) Foolish

Directions—(Q. 7 and 8) In the following questions select the **most appropriate meaning** for the meaning for the given **bold** word.

7. **Garrulous**

- (A) Cranky (B) Old
(C) Talkative (D) Vindictive

8. **Quandary**

- (A) Word-puzzle
(B) Dilemma
(C) Maze of hedges
(D) Target

Directions—(Q. 9 and 10) In the following questions choose the word for each blank that best fits the meaning of the sentence as a whole.

9. No act of was more pronounced than his refusal of any rewards for his discovery.

- (A) Egoism
(B) Submission
(C) Abnegation
(D) Denunciation

10. The evil of race hatred must be eliminated while it is still in an state, otherwise it may grow to dangerous proportions.

- (A) Amorphous
(B) Embryonic
(C) Uncultivated
(D) Overt

Directions—(Q. 11–16) In the following questions a word in **capital letters** is followed by four words/phrases as choices. Select the choice **most nearly opposite** in meaning to the **bold** word in **capital letters**.

11. **AMELIORATION**

- (A) Prevention
(B) Distraction
(C) Aggravation
(D) Indifference

12. **GREGARIOUS**

- (A) Anticipatory
(B) Similar
(C) Glorious
(D) Anti social

13. **EXONERATE**

- (A) Forge (B) Accuse
(C) Record (D) Reimburse

14. **CONSENSUS**

- (A) Trouble
(B) Nuisance
(C) Disagreement
(D) Conscience

15. **VIBRANT**

- (A) Dull
(B) Violent
(C) Monotonous
(D) Pragmatic

16. **FLAK**

- (A) Severe Criticism
(B) Severe Crisis
(C) Praising High
(D) None of these

Directions—(Q. 17–20) The words of proverbs and sentences are given in a jumbled manner. If the words are arranged properly, they make a readable sentence. Pick a choice which gives the correct sequence of words.

17. Death, before, times, their, cowards, many, die—

1 2 3 4 5 6 7

- (A) 2431756 (B) 4657123
(C) 5763241 (D) 6375124

18. Memory, liar, a, a, good, needs—

1 2 3 4 5 6

- (A) 326451 (B) 464251
(C) 524461 (D) 165234

19. Burnt, fire, a, child, dreads, the—

1 2 3 4 5 6

- (A) 314562 (B) 314265
(C) 624135 (D) 246531

20. Of, mind, face, is, index, the—

1 2 3 4 5 6

- (A) 132456 (B) 634215
(C) 345162 (D) 534216

Directions—(Q. 21–24) Each of the following idioms is followed by alternative meanings of which one is correct. Write the correct option.

21. Put a person through his paces—

- (A) Put him on the right track
- (B) Make him quicken steps
- (C) Test his abilities
- (D) Inspire him to work hard

22. Pull strings—

- (A) Tease someone
- (B) Start something
- (C) Exert hidden influence
- (D) Speed up

23. A storm in a tea cup—

- (A) Great noise
- (B) A danger signal
- (C) Unexpected event
- (D) Much excitement over something trivial

24. A square peg in a round hole—

- (A) A person unsuited to the position he fills
- (B) A scheme that never works
- (C) An impossible task
- (D) A Herculean task

Directions—(Q. 25–28) In each of the following sentences a portion has been **bold**. There are four choices of phrasing the portion including the original which is choice 'a'. Select the best usage version from 'a', 'b', 'c' and 'd'.

25. Research revealed that children can learn to count long before **the recognition that**, a pint of water poured from a small glass to a large glass remains the same amount of water.

- a. the recognition that
- b. they can recognize that
- c. they would recognize
- d. the could have the recognition of

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

26. Several senior officers spoke to the press on condition **that they not be named** in the story.

- a. that they not be named
- b. that their names will not be used
- c. that their names are not used
- d. of not being named

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

27. Apart from experimental confirmation, however, something more **is generally wanted from** a theory—

- a. is generally wanted from
- b. is generally demanded of
- c. is mostly required of
- d. is necessitated from

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

28. During the first fifty years of existence of our republic, no one expected the **press was** fair and newspapers were shrill and partisan—

- a. press was
- b. press to be
- c. press of being
- d. press should be

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

Directions—(Q. 29–31) In each of the following questions, a word has been written in four different ways. Only one is **correctly spelt**. Mark the correct alternative.

29. (A) Rigorous
(B) Riguorous
(C) Rigerous
(D) Rigerouss

30. (A) Indispensable
(B) Indispensible
(C) Indispenseble
(D) Indespensable

31. (A) Callous (B) Calous
(C) Calaseus (D) Caleous

Directions—(Q. 32–34) In these questions some parts of the sentence have been jumbled up. You are required to rearrange these parts which are labelled as PQR and S to produce the correct sentence. Choose the proper sequence from given alternatives (A), (B), (C) and (D).

32. It is known that / the world's greatest men / becoming rich / with a view to / have not laboured—

- (A) PRQS (B) RQPS
- (C) PSRQ (D) RQSP

33. The broker said that / a person / should shop carefully / who buys a house / for the lowest interest rate—

- (A) SPRQ (B) PRQS
- (C) SPQR (D) PSRQ

34. When / the mother bird came home / the storm had subsided / cried piteously / and on not finding her young ones.

- (A) QSPR (B) PSRQ
- (C) PRSQ (D) QPSR

Directions—(Q. 35 and 36) In the following questions there are incomplete sentences. Beneath each sentence there are four words or phrases. Choose the one word or Phrase that best completes the sentence.

35. He is tennis.
(A) fond to play
(B) fond of playing
(C) fond in playing
(D) fond at playing

36. Her voice as she tried to speak the truth in court.
(A) faltered
(B) was faltered
(C) were being faltered
(D) have been faltered

Directions—(Q. 37–41) Read the following passage. The questions following it are based on its content. Select the best answer to each question, based on the content of the passage.

What is it that people today fail to understand about what is happening to them? What is happening is that they are using up their planet at a fearsome rate and may soon pass the point where their total habitat can sustain human life. Man's world is slipping away from him. His habits, his thoughts, his actions run counter to the essentials of his existence. He has created national governments for the purpose of giving him maximum protection, but he has no way of protecting himself against the govern-

ments. In the act of contending with one another, the governments have become instruments of race suicide and world holocaust.

Most of what man does is irrelevant to his main problems; his ingenuity has been applied to everything except the need to make his planet safe for human habitation. He has cut into his natural environment with large slashes. His sources of food are being sealed over by the tar and cement of his cities and highways. Next to destructive force, he produces nothing in greater volume than his garbage. He has made his sky an open sewer and his rivers and lakes a poisonous brew. He has pumped his foul wastes into the seas and has stared balefully at billions of floating dead fish.

Instead of fortifying his plants against insects with rich loam and compost, he has attacked them indiscriminately with chemicals, violating the chain of life and killing off the birds that are far more essential to his own spirit than many of his commodities. By going against nature, he has warred against beauty of line, movement, and sound. He has been mucking up his own planet, but has the arrogance to go searching for life elsewhere in the universe.

What has been happening to people that they don't understand is that they have made a geographical entity out of their world without a philosophy for ennobling it, a plan for conserving it, or an organization for sustaining it. Men crave to do good, to act reasonably and think decently. But goodness and decency and wisdom must have a world purpose in our time if life and thought are to have any meaning at all.

37. The author would strongly oppose—
 (A) a flight to Mars to search for life
 (B) a stronger United Nations
 (C) pollution control
 (D) organic farming
38. The passage condemns man for—
 (A) discovery of penicillin
 (B) laying railway tracks
 (C) man's ingenuity
 (D) mucking up his own planet

39. The tone of the passage can best be said to be—
 (A) concealed humour
 (B) alarming concern
 (C) unbridled anger
 (D) a sense of joy
40. The author's view on man's thoughts, habits and actions are that—
 (A) they contribute to financial success
 (B) run counter to the theory of relativity
 (C) go against the basics of his existence
 (D) they assist in the process of evolution
41. The passage brings out that man's craving for doing good, acting reasonably and thinking decently is not enough unless these qualities—

- (A) are implemented quickly
 (B) have a goal for entire world
 (C) build friendship between humans
 (D) help in avoiding conflict

Directions—(Q. 42 and 43) In the following questions a standard English idiom is followed by four choices. Select the choice which is closest to the meaning of the idiom.

42. In straitened circumstances—
 (A) with a guilty feeling
 (B) in a difficult situation
 (C) smooth flow of work
 (D) criminal behaviour
43. To throw down the gauntlet—
 (A) Lose weight
 (B) Discard items
 (C) To challenge
 (D) To Threaten

Directions—(Q. 44–46) Below the sentence are four words or phrases, (A) through (D). Select the word or set of words that best completes the sentence.

44. The best Eskimo carvings of all ages seem to possess a powerful ability to...the great barriers of language and time and communicate with us.
 (A) leap over, temporarily
 (B) reach across, directly
 (C) rise above, verbally
 (D) pass through, infrequently

45. The developing brain can be likened to a highway system thatuse, less traveled roads may be abandoned, popular roads broadened, and new ones added where they are needed.
 (A) suffers from
 (B) evolves with
 (C) detours around
 (D) atrophies with
46. British collectors are notorious for their of interest in art, much preferring to collect antiques and 'important' pictures by long-dead artists—
 (A) growth, abstract
 (B) lack, posthumous
 (C) resurgence, innovative
 (D) dearth, contemporary

Directions—(Q. 47 and 48) In the following questions four choices are given. Find the odd one out.

47. (A) Malleable (B) Feasible
 (C) Flexible (D) Adjustable
48. (A) Besmirched
 (B) Sullen
 (C) Defiled
 (D) Blemish

Directions—(Q. 49 and 50) In the following questions a sentence is followed by four choices. These are choices for the **bold** portion of the sentence. Select the best choices as per usage of the language.

49. He was the President of the society **since** the past seven years—
 (A) Since (B) For
 (C) During (D) Far
50. It was revealed that the lady's interests were **painting, writing and to trek**—
 (A) Painting, writing and trekking
 (B) To paint, write and trek
 (C) To paint, writing and trekking
 (D) Painting, writing and to trek

Part-II

General Intelligence

Directions—(Q. 51–54) Read the following information and answer the questions given below—

- I. Six students A, B, C, D, E and F are ranked in des-

- ending order on the basis of their marks in two subjects Physics and Chemistry.
- II. E's rank remains the same and he is between A and B in both subjects but A and B interchange positions.
- III. D ranks first in one subject and last in the other.
- IV. In Physics B's rank is second and F's rank is last.
- V. In Chemistry F's rank is fifth.
51. Whose performance is the poorest in Chemistry ?
 (A) D
 (B) A
 (C) C
 (D) Data Inadequate
52. Who got the first rank in Chemistry ?
 (A) A
 (B) C
 (C) F
 (D) Data Inadequate
53. If the ranks of Chemistry are given in ascending order, who will get the first rank ?
 (A) E
 (B) B
 (C) D
 (D) None of these
54. What is the rank of E in both the subjects ?
 (A) Second
 (B) Third
 (C) Fourth
 (D) None of these
55. In a row of students, Nita is 8th from the right and Raja is 16th from the right. How many boys are there in that row ?
 (A) 22
 (B) 24
 (C) 23
 (D) Data Inadequate
56. Introducing Suneeta, Amar said, "She is the wife of my mother's only son." How is Suneeta related to Amar ?
 (A) Wife
 (B) Sister
 (C) Sister-in-law
 (D) Data Inadequate
57. If the 1st day of a month is Thursday, which of the following would be the fifth day from the 16th of that month ?
 (A) Wednesday
 (B) Thursday
 (C) Friday
 (D) Saturday
- Directions**—(Q. 58–61) There are 3 types of industries, paper, drug and toy industry. Six workers A, B, C, D, E and F work in these industries. Only two of them can work in one industry. No one can work in more than one industry. 'A' does not work in paper industry. 'B' and 'E' do not work in toy industry. 'A' and 'B' do not work in the same industry. 'D' does not work in drug industry. 'A' and 'D' do not work in toy industry. 'E' and 'F' are not in the same industry.
58. Which two workers work in the drug industry ?
 (A) AE
 (B) EB
 (C) CF
 (D) None of these
59. Which two work in the paper industry ?
 (A) AE
 (B) EB
 (C) BD
 (D) None of these
60. Paper, Drug and Toy are represented by which of the following respectively ?
 (A) ACD
 (B) EFD
 (C) BAC
 (D) None of these
61. 'A' works in which industry ?
 (A) Drug Industry
 (B) Paper Industry
 (C) Toy Industry
 (D) None of these
62. My house is to the south of the 'State Bank' and the 'Central School' is to the east of my house which is as far away from the 'State Bank' as from the 'Central School'. I first go to the 'State Bank' and then start walking to the 'Central School'. Just when I am half-way through I meet my cousin and then we decide to walk back home. In which direction are we walking now ?
 (A) South-East
 (B) South-West
 (C) North-East
 (D) North-West
63. In a certain code, if BAD is written as YZW and SAID is written as HZRW, then LIFE will be written as—
 (A) ORUV (B) OQVU
 (C) OSUV (D) ORVW
64. If HONESTY is written as 5132468 and POVERTY as 7192068, how is 'PROPERTY' written in certain code ?
 (A) 70170268 (B) 70712068
 (C) 70712608 (D) 70172068
65. Five girls are sitting on a bench to be photographed. Sejal is to the left of Rashmi and to the right of Binni. Mamta is to the left of Rashmi. Ragini is between Rashmi and Mamta. Who is sitting immediately right to Ragini ?
 (A) Rashmi (B) Mamta
 (C) Binni (D) Sejal
66. Peeyush walked 8 km west and turned right and walked 3 km. Then again he turned right and walked 12 km. How far is he from the starting point ?
 (A) 5 km
 (B) 7 km
 (C) 9 km
 (D) None of these
67. Asha is heavier than Garima. Meena is lighter than Jolly. Puneeta is heavier than Jolly but lighter than Garima. Who among them is the heaviest ?
 (A) Garima (B) Puneeta
 (C) Jolly (D) Asha
68. The position of how many letters in the word BRAKES remains unchanged when they are arranged in alphabetical order ?
 (A) One
 (B) Three
 (C) Two
 (D) None of these
69. In a certain code language 'bring the white board' is written as 'ka na di pa' and 'white and black board' is written as 'na di sa ra'. How is 'the' written in that code ?

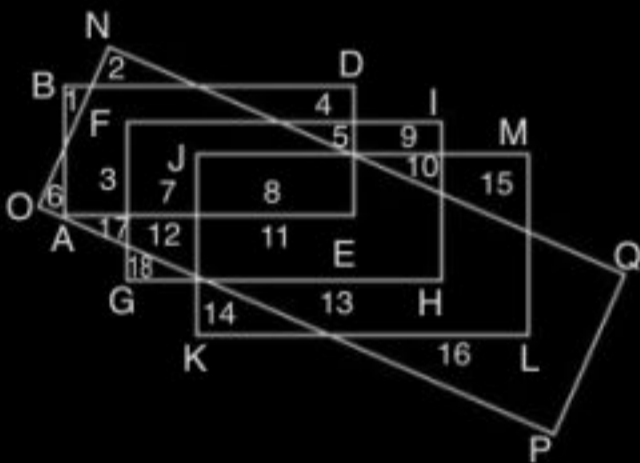
- (A) ka (B) pa
(C) ka or pa (D) ra

70. The flowers in a basket become double after every minute. In 50 minutes, the basket is full. After how many minutes, the basket would be half filled ?
(A) 30
(B) 25
(C) 49
(D) None of these

71. A man is walking in a circle of 100 metre circumference around a monument. He sees the sunrise behind the monument and starts moving towards his left to have a North view of the monument. What would have been the difference in metres if he would have had to walk in case he had turned right to have the same view ?
(A) 25 metre (B) 50 metre
(C) 75 metre (D) 100 metre

Directions—(Q. 72–74) For answering question study diagram which is represented as follows and select the appropriate choice—

- ABDE represents Artists
FGHI represents Scientists
JKLM represents Administrators
OPQN represents healthy people



72. Artists who are scientists and administrator and who are healthy are represented by—
(A) 11 (B) 5
(C) 7 (D) 8
73. Scientists who are administrators but not healthy are represented by—
(A) 15 (B) 12
(C) 14 (D) 10
74. Scientists who are also artists but in not good state of health belong to the area—
(A) 4 (B) 5
(C) 9 (D) 10

75. If water is called food, food is called tree, tree is called sky, sky is called wall, on which of the following grows fruit ?
(A) Water (B) Tree
(C) Wall (D) Sky
76. In a row of 16 boys, when Ashish was shifted two places towards the left, he became 7th from left end. What was his earlier position from the right end of the row ?
(A) 10th (B) 12th
(C) 9th (D) 8th

Directions—(Q. 77–80) The following are the statistics of some matches of a cricket team bowlers and the wickets taken A, B, C and D are the fast bowlers of the team—



77. If the number of wickets taken by spinners is 15, the total number of wickets taken by bowlers is—
(A) 50 (B) 45
(C) 40 (D) 35
78. What % of the total wickets did 'A' take ?
(A) 9 (B) 17
(C) 18 (D) 10
79. What is ratio of the wickets taken by C to the wickets that fell through run-outs ?
(A) 2 : 5 (B) 1 : 5
(C) 3 : 10 (D) 4 : 5
80. If the inter-se wicket taking ratio between bowler groups remains the same and the run out are limited to 2 only, how many more wickets would spinners take, based on the original presumption that spinners took 15 wickets earlier ?
(A) 1 (B) 2
(C) 3 (D) 0
81. Six person A, B, C, D, E and F are standing in a circle. B is between D and C. A is between

E and C. F is to the right of D. Which one is between A and F ?
(A) E
(B) C
(C) D
(D) None of these

82. If the numerals of a 24 hours digital clock represent the English alphabets serially from 1 to 24 (Y & Z not represented), then the code for ALEXANDER is likely to be in terms of time—
(A) 1. 12. 5. 24. 1. 14. 4. 5. 18
(B) 13. 12. 5. 24. 1. 14. 4. 5. 18
(C) 2. 12. 5. 24. 1. 14. 4. 5. 24.
(D) 1. 12. 4. 24. 2. 14. 4. 5. 18.
83. In a laboratory study, 100 rabbits in an experimental group were injected with serum D and 100 rabbits in control group were injected with harmless sugar solution. In one week 50% of experimental group contracted jungle fever a very contagious disease. Therefore, jungle fever must be caused by a substance similar to substances in Serum D. This argument would be strengthened if—
(A) Normal rate of jungle fever in rabbits is less than 1%
(B) 50% of control group rabbits had also contracted jungle fever in the same time
(C) The Serum D has substances extracted from a poisonous jungle flower
(D) The blood samples of fever victims invariably contains a high level of toxic substances also found in Serum D
- Directions**—Study the statements given below and the two conclusions which follow, and point out as follows—
A. If only conclusion I follows
B. If only conclusion II follows
C. If both I and II follow
D. If none of the conclusions follow
84. The requirement of Indian software professionals in US has dropped of late and a large number of them have returned home—
I. Indians professionals no longer work hard.
II. India needs its own software professionals.

- (A) A (B) B
(C) C (D) D

Directions—(Q. 85–88) There are six children Anuj, Riya, Krishna, Pooja, Vinod and Bharti playing football. Anju and Vinod are brothers. Bharti is the sister of Vinod. Krishana is only son of Anuj's uncle. Riya and Pooja are daughters of the only brother of Krishna's father.

85. How is Krishna related to Bharti ?
(A) Cousin (B) Son
(C) Brother (D) Uncle
86. How many male players are there ?
(A) One (B) Two
(C) Three (D) Four
87. How many female players are there ?
(A) Two
(B) Three
(C) Four
(D) None of these
88. How is Pooja related to Anuj ?
(A) Uncle (B) Niece
(C) Cousin (D) Sister

Directions—(Q. 89–92) Find the missing term in series below—

89. 3, 8, 18, ?, 53, 78
(A) 31
(B) 32
(C) 33
(D) None of these
90. 61, 64, 68, ?, 79
(A) 70 (B) 73
(C) 71 (D) 74
91. 27, 125, ?, 729, 1331
(A) 343 (B) 403
(C) 316 (D) 216
92. 110, 164, 226, ?, 374
(A) 256 (B) 296
(C) 276 (D) 286
93. Rakhi is taller than Neeta but not as tall as Babita. Leela is shorter than Rakhi but taller than Garima. Who among them is the tallest ?
(A) Rakhi
(B) Babita
(C) Leela
(D) None of these

94. Which of the following will come in place of the question-mark ?

Z X, X V, ? , T R, R P

- (A) V U (B) V S
(C) V T (D) V W
95. In a class of 30 children, Saran rank is ninth from the top. Manish is five ranks below Saran. What is Manish's rank from the bottom ?
(A) 17th (B) 18th
(C) 16th (D) None of these
96. In a certain code 'PAISE' is coded as 'QBJTF' and 'CEASE' is coded as 'DFBTF'. How will 'TRANGLE' be coded in the same code ?
(A) USBOIMF (B) USMBHMF
(C) USOBIMF (D) USBOHMF
97. How many 9's are there in the following number sequence which are immediately followed by 8 and immediately preceded by 7?
7 9 8 7 5 9 8 7 9 8 7 9 8 7 9 7 5 7 9 8 5
8 7 9 7 9 8
(A) Two
(B) Three
(C) Four
(D) None of these
98. The letters of a musical instrument are AOSPXNOEH. If they are rearranged in the correct order what will be the first, last and middle letter respectively ?
(A) NAO (B) EXH
(C) SEP (D) NOA
99. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife." How is the lady related to the man ?
(A) Mother-in-law
(B) Sister of father-in-law
(C) Maternal Aunt
(D) None of these
100. A boy travelled from a point X straight to Y at a distance of 80 m. Then he turned right and walked 50 m. Again he turned right and walked 70 m. Finally, he turned right and walked 50 m. How far is he from the starting point ?
(A) 30 m (B) 20 m
(C) 50 m (D) 10 m

101. In 4 year, ₹ 6,000 amounts to ₹ 8,000. In what time at the same rate will ₹ 525 amount to ₹ 700 ?

- (A) 5 year
(B) 3 year
(C) 4 year
(D) None of these

102. The radius of a circle is so increased that its circumference increased by 5%. The area of the circle then increases by—

- (A) 12.5%
(B) 10.25%
(C) 10.5%
(D) None of these

103. If the numerator of a fraction is increased by 150% and the denominator of the fraction is increased by 300% the resultant fraction is $\frac{5}{18}$. What is the original fraction ?

- (A) $\frac{4}{9}$
(B) $\frac{8}{9}$
(C) $\frac{6}{9}$
(D) None of these

104. A lawn is in the form of rectangle having its sides in the ratio 2 : 3. The area of the lawn is 600 sq metre. Find the length of the lawn—

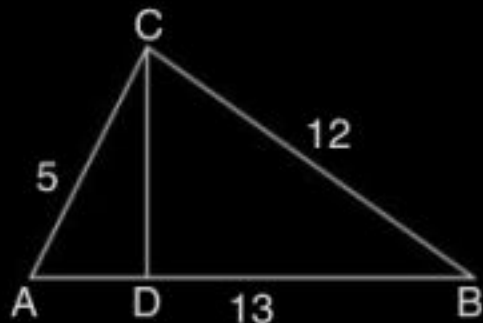

- (A) 20 m
(B) 30 m
(C) 25 m
(D) None of these

105. A bus left with some definite number of passengers. At the first stop, half the passengers left the bus and 35 boarded the bus.

At the second stop $\frac{1}{5}$ th of the passengers left and 40 boarded the bus. Then, the bus moved with 80 passengers towards its destination without stopping anywhere. How many passengers were there originally ?

- (A) 40 (B) 30
(C) 50 (D) 60

106. A sum of ₹ 45 is made up of 100 coins, partly of 50 paise and partly of 25 paise. How many 25 paise coins ?
 (A) 50 (B) 20
 (C) 40 (D) 80
107. Twenty years ago the ratio between the ages of Sita and Meena was 1 : 4 and at present it is 1 : 2. What is the age of Sita at present ?
 (A) 25
 (B) 35
 (C) 30
 (D) None of these
108. An alloy of gold and silver weighs 50 gm. It contains 80% gold. How much gold should be added to the alloy so that percentage of gold is increased to 90 ?
 (A) 45 gm
 (B) 40 gm
 (C) 50 gm
 (D) None of these
109. The breadth of a rectangular plot is decreased by 20 per cent. By what per cent should the length be increased to keep the area same ?
 (A) 25
 (B) 20
 (C) 30
 (D) None of these
110. The sum of the first two of three consecutive odd numbers is 33 more than the third number. What is the second number ?
 (A) 35 (B) 37
 (C) 39 (D) 33
111. 12 men and 18 boys working $7\frac{1}{2}$ hours a day can do a work in 60 days. If one man works equal to 2 boys, then the number of boys required to help 21 men to do twice the work in 50 days working 9 hours a day will be—
 (A) 42
 (B) 44
 (C) 46
 (D) None of these
112. The C. P. of two shirts taken together is ₹ 840. If by selling one at a profit of 16% and the other at a loss of 12%, there is no loss or gain in the whole transaction, then the C.P. of the two shirts are respectively—
 (A) ₹ 360, ₹ 480
 (B) ₹ 480, ₹ 360
 (C) ₹ 380, ₹ 460
 (D) None of these
113. 5% of income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If income of C is ₹ 2000, then total income of A, B and C is—
 (A) 26,000 (B) 16,000
 (C) 18,000 (D) 20,000
114. If the difference between simple and compound interest on some principal amount at 20% per annum for three years is ₹ 48, then the principal amount is—
 (A) ₹ 450
 (B) ₹ 375
 (C) ₹ 390
 (D) None of these
115. If a man decides to travel 80 km in 8 hour, partly by foot and partly on a bicycle, his speed on foot being 8 km/hr and that on bicycle being 16 km/hr, what distance would be travel on foot ?
 (A) 20 km
 (B) 48 km
 (C) 36 km
 (D) None of these
116. Rakesh got married 8 year ago. His present age is $\frac{6}{5}$ times his age at the time of his marriage. Rakesh's sister was 10 year younger to him at the time of his marriage. The age of Rakesh's sister is—
 (A) 38
 (B) 36
 (C) 32
 (D) None of these
117. A train passes through a tunnel whose length is 500 metre in 1 minute while running at a speed of 72 km per hour. The length of the train is—
 (A) 750 metre
 (B) 700 metre
 (C) 800 metre
 (D) None of these
118. When three coins are tossed together, the probability that all coins have the same face is—
 (A) $\frac{1}{4}$
 (B) $\frac{1}{6}$
 (C) $\frac{1}{3}$
 (D) None of these
119. The sum of two numbers is 1215 and their HCF is 81. How many such pairs of numbers can be formed ?
 (A) 3
 (B) 4
 (C) 6
 (D) None of these
120. A mixture contains alcohol and water in the ratio 4 : 3. If 5 litre of water is added to the mixture the ratio becomes 4 : 5. The quantity of alcohol in the given mixture is—
 (A) 12 litre (B) 10 litre
 (C) 14 litre (D) 16 litre
121. The average weight of 29 students is 40 kg. If the weight of teacher be included, the average weight is increased by 300 gm. The weight of the teacher is—
 (A) 49 kg
 (B) 56 kg
 (C) 58 kg
 (D) None of these
122. The population of a town is 10,000. If the males increases by 5% and the females by 6%, the population will be 10,540. How many females are there ?
 (A) 4000 (B) 4500
 (C) 4800 (D) 5400
123. A reduction of 21% in the price of wheat enables a person to buy 10.5 kg more for ₹ 100. What is the reduced price per kg ?
 (A) ₹ 2 (B) ₹ 3
 (C) ₹ 2.50 (D) ₹ 3.50
124. Mahima secured 50% marks in Hindi, 60% in English and 70% in Maths as well as in Science. What were her total marks if the maximum marks obtainable in each of these 4 subjects was 50 ?

- (A) 175
(B) 150
(C) 125
(D) None of these
125. Rita, Sita and Meeta are employed to do a piece of work for ₹ 625. Rita and Sita together are supposed to do $\frac{17}{23}$ of the work. What should Meeta be paid ?
(A) 162.04
(B) 163.04
(C) 161.04
(D) None of these
126. ₹ 120 is divided between x, y and z, so that x's share is ₹ 20 more than y's and ₹ 20 less than z's. What is y's share ?
(A) ₹ 25
(B) ₹ 20
(C) ₹ 30
(D) None of these
127. If sweets are bought at ₹ 15 a ₹, how many must be sold for a ₹ to gain 25% ?
(A) 10
(B) 11
(C) 12
(D) 8
128. If $4b^2 + \frac{1}{b^2} = 2$, then the value of $8b^3 + \frac{1}{b^3}$ is—
(A) 0
(B) 1
(C) 2
(D) None of these
129. A rational number between $\frac{1}{2}$ and $\frac{3}{5}$ is—
(A) $\frac{2}{5}$
(B) $\frac{3}{5}$
(C) $\frac{4}{7}$
(D) None of these
130. The ratio of the volumes of two spheres is 8 : 27. Find the ratio of their surface areas—
(A) 4 : 9
(B) 3 : 5
(C) 2 : 5
(D) None of these
131. How many numbers are there between 99 and 1000 such that the digit 8, occupies the units place ?
(A) 64
(B) 74
(C) 82
(D) None of these
132. The difference between the ages of two sisters is half the difference between the ages of their parents. The elder sister is 18 years of age. Their father's age was 32 years when the younger sister was born who is now 15 years old. What is their mother's age ?
(A) 40
(B) 41
(C) 42
(D) 43
133. In a football championship, 153 matches were played. Every team played one match with each other. The number of team participating in the championship is—
(A) 16
(B) 17
(C) 18
(D) None of these
134. One-third of the boys and one half of the girls of a college participate in a social work project. If the number of participating students is 300 out of which 100 are boys, what is the total number of students in the college ?
(A) 500
(B) 700
(C) 800
(D) None of these
135. A cow is grazing in a pasture bordered by two fences more than ten feet long that meet at an angle of 60° . If the cow is tethered by a ten foot rope to the post where the fences meet, it can graze an area of—
(A) 20π
(B) $\frac{50\pi}{3}$
(C) $\frac{5\pi}{3}$
(D) None of these
136. CD is a \perp dropped from C. If the area of ΔADC is 'a', then the area of ΔBDC is—

- (A) $30 - a$
(B) $60 - a$
(C) $a + \frac{12}{5} a$
(D) None of these
137. The radius of each circle is 'a'. Then the area of the shaded portion is—

(A) $a^2 \left(\sqrt{3} - \frac{\pi}{2} \right)$
(B) $a (\pi a^2 - \sqrt{3})$
(C) $\left(a^2 - \frac{\pi}{2} \right) \sqrt{3}$
(D) None of these
138. A box contains 85 nuts each of 100 gm and 94 bolts each of 150 gm. If the entire box with its contents weighs 42.5 kg, then what is the weight of the empty box ?
(A) 29.5 kg
(B) 21.5 kg
(C) 18.5 kg
(D) None of these
139. If the radius of a circle is increased by 20%, then how much will its area be increased by ?
(A) 40%
(B) 44%
(C) 50%
(D) None of these
140. When 50 is subtracted from 50% of a number, result is 50. The number is—
(A) 150
(B) 400
(C) 200
(D) 300
141. A bus consumes 25 litre of diesel in covering a distance of 90 kilometre. How much diesel is needed to cover 288 kilometre ?
(A) 70 litre
(B) 78 litre
(C) 80 litre
(D) None of these

142. A stack of 1000 sheets of paper is 11.8 cm high. The thickness of each sheet of paper is—
 (A) 11.18 cm
 (B) 0.0118 cm
 (C) 0.118 cm
 (D) None of these
143. A cook purchased $5\frac{1}{6}$ kg potatoes, $3\frac{5}{12}$ kg tomatoes and $1\frac{5}{9}$ kg carrots. What is the total quantity of vegetables purchased?
 (A) $10\frac{5}{36}$ (B) $9\frac{4}{35}$
 (C) $8\frac{3}{37}$ (D) $10\frac{3}{35}$
144. A car covers the first 39 km of its journey in 45 minute and the remaining 25 km in 35 minute. What is the average speed of the car?
 (A) 46 km/hr
 (B) 40 km/hr
 (C) 48 km/hr
 (D) None of these
145. When a person distributed sweets among a gathering of people, each person got 7 sweets and 14 sweets remained undistributed. If two more people had joined the gathering, no sweet would have remained undistributed. How many people had gathered?
 (A) 70
 (B) 56
 (C) 63
 (D) Cannot be determined
146. A compact disc player when sold for ₹ 13,600 incurred a loss of 15 per cent. At what price should it have been sold to make a profit of 35 per cent on the cost?
 (A) ₹ 21,600
 (B) ₹ 20,400
 (C) ₹ 19,600
 (D) None of these
147. Out of 60 students in a class, 15 fail in English and 13 fail in Hindi. If 4 students fail both in Hindi and English. Then the number of students who pass in both the subjects is—
 (A) 34 (B) 36
 (C) 38 (D) 26
148. If $x : y = 8 : 9$, then $5x - 4y : 3x + 2y$ is equal to—
 (A) 2 : 19
 (B) 3 : 17
 (C) 2 : 21
 (D) None of these
149. 66 cubic centimetres of silver is drawn into a wire 1 mm in diameter. The length of the wire in metres will be—
 (A) 84
 (B) 128
 (C) 116
 (D) None of these
150. A contract is to be completed in 50 days and 105 men were set to work, each working 8 hours a day. After 25 days, $\frac{2}{5}$ th of the work is finished. How many additional men be employed so that the work may be completed on time, each man now working 9 hours a day?
 (A) 35
 (B) 40
 (C) 45
 (D) None of these
151. The expression 'Tryst With Destiny' was first used by Pandit Jawaharlal Nehru on the occasion of—
 (A) Dandi March
 (B) August 14/15 night
 (C) Quit India Movement
 (D) None of these
152. Alpha-Keratin is protein present in—
 (A) Wool (B) Eggs
 (C) Blood (D) Skin
153. To whom did Iltutmish dedicate the Qutub Minar?
 (A) Razia Sultan
 (B) Qutbuddin Aibak
 (C) Moinuddin Chishti
 (D) Qutabuddin Bhaktiyar Kaki
154. Who amongst the following is the author of the book "Many Lives Many Masters"?
 (A) Robin Cook
 (B) L. K. Advani
 (C) Brian Viz
 (D) None of these
155. Winter Olympics 2014 will be held in—
 (A) Italy (B) Brazil
 (C) USA (D) Russia
156. In which state was Krishna-patnam Part constructed?
 (A) Odisha
 (B) Andhra Pradesh
 (C) Kerala
 (D) Maharastra
157. The well-known book "The Rediscovery of India" has been written by—
 (A) L. K. Advani
 (B) Anita Desai
 (C) Vikram Seth
 (D) Meghnad Desai
158. Which country gives Magsaysay awards?
 (A) India
 (B) Britain
 (C) China
 (D) The Philippines
159. Silver halides are used in photographic plates because they are—
 (A) Reduced by light
 (B) Totally colourless
 (C) Soluble in hyposolution
 (D) Oxidised in air
160. Tetra ethyl lead (TEL) is—
 (A) An antioxidant
 (B) An antiknock compound
 (C) A reductant
 (D) None of these
161. What is the full form of the term 'NPA' as used in banking environment?
 (A) Not Profitable Assets
 (B) Net Performing Assets
 (C) Non Performing Assets
 (D) New Potential Accounts
162. Yakshagan is the famous dance form of the State of—
 (A) Odisha (B) Karnataka
 (C) Assam (D) Kerala
163. Bull fighting is the national game of—
 (A) Spain (B) Italy
 (C) Poland (D) Sudan

Part-IV

General Awareness

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164. The expected energy of electrons at absolute zero is called—
 (A) Work function
 (B) Potential energy
 (C) Emission energy
 (D) Fermi energy
165. The electromagnetic waves do not transport—
 (A) Charge
 (B) Energy
 (C) Information
 (D) Momentum
166. Which of country won the Cricket Asia Cup 2012 ?
 (A) India (B) Sri Lanka
 (C) Pakistan (D) Bangladesh
167. Mahe, which is situated on the Malabar coast on the Western Ghats, is a part of—
 (A) Puducherry
 (B) Tamil Nadu
 (C) Maharashtra
 (D) Kerala
168. Who among the following Indian rulers was a contemporary of Akbar ?
 (A) Ahilya Bai
 (B) Raja Sawai Jai Singh
 (C) Rani Durgawati
 (D) Martanda Varma
169. Match List-I (Temple/Heritage Site) with List-II (State) and select the correct answer using the codes given below the lists—
- List-I**
 (Temple/Heritage Site)
- (a) Brihadeswara Temple
 (b) Dilwara Temple
 (c) Lingaraja Temple
 (d) Hampi Group of Mountains
- List-II**
 (State)
1. Odisha
 2. Tamil Nadu
 3. Karnataka
 4. Rajasthan
- Codes :**
- | | (a) | (b) | (c) | (d) |
|-----|-----|-----|-----|-----|
| (A) | 3 | 1 | 4 | 2 |
| (B) | 3 | 2 | 4 | 1 |
| (C) | 2 | 4 | 1 | 3 |
| (D) | 2 | 3 | 1 | 4 |
170. The tropic of cancer passes through—
 (A) India and Saudi Arabia
 (B) India and Iran
 (C) Iran and Pakistan
 (D) None of these
171. Who developed Hydrogen Bomb ?
 (A) Samuel Cohen
 (B) Wernher von Braun
 (C) Edward Teller
 (D) J. Robert Open Heimer
172. The most abundant element in the human body is—
 (A) Iron (B) Oxygen
 (C) Carbon (D) Nitrogen
173. In which one of the following Union Territories, do the people of the onge tribe live ?
 (A) Andaman and Nicobar Island
 (B) Daman and Diu
 (C) Dadar and Nagar Haveli
 (D) Lakshadweep
174. Which one of the following statements correctly describes the Fourth Schedule of the Constitution of India ?
 (A) It contains the scheme of the distribution of powers between the union and states
 (B) It allocates seats in the council of states
 (C) It contains the languages listed in the Constitution
 (D) It contains the provisions regarding the administration of tribal areas
175. Who among the following is well known as an exponent of flute ?
 (A) Madhup Mudgal
 (B) Shafaat Ahmad
 (C) Ronu Mazumdar
 (D) Debu Choudhari
176. Kuril Island is under territorial dispute between which countries—
 (A) Japan and Russia
 (B) South Korea and North Korea
 (C) Japan and South Korea
 (D) Japan and North Korea
177. Which of the following is not a writ provided in the Constitution of India ?
 (A) Mandamus
 (B) Quo Warranto
 (C) Habeas Corpus
 (D) Injunction
178. A stick immersed in water appears bent due to the phenomena of—
 (A) Reflection of light
 (B) Diffraction of light
 (C) Refraction of light
 (D) Dispersion of light
179. The oldest style of composition of North Indian Classical music is—
 (A) Ghazal
 (B) Dhruvpad
 (C) Thumari
 (D) None of these
180. Deputy Speaker Lok Sabha at present is—
 (A) Ms. Shusma Swaraj
 (B) Mr. Karia Munda
 (C) Mr. Arun Jaitely
 (D) None of these
181. Who among the following presides over the National Development Council ?
 (A) The Finance Minister of India
 (B) The Speaker of Lok Sabha
 (C) Prime Minister of India
 (D) The elected members from among the Chief Ministers of the States
182. Under Right to Education Act, the children of which of the following age groups are eligible to get free education ?
 (A) Upto 5 years
 (B) Between 6 and 10 years
 (C) Between 6 and 14 years
 (D) Between 8 and 12 years
183. The Indian Parliament consists of—
 (A) Lok Sabha, Rajya Sabha and the President
 (B) Lok Sabha and Rajya Sabha
 (C) Lok Sabha and State Assemblies
 (D) Lok Sabha only
184. A line on a meteorological map joining places of equal rainfall is called—
 (A) Isoclinic (B) Isobar
 (C) Isogenic (D) Isohyet

185. In which part of a human body 'Hippocampus' is located ?
 (A) Brain (B) Eyes
 (C) Ears (D) Nose
186. What is psephology ?
 (A) Statistical study of Elections Voting etc.
 (B) Study of Rain fall pattern
 (C) Study of gene disorder
 (D) None of the above is true
187. This state contributes 70% of India's coffee and silk. Name this state—
 (A) Karnataka (B) Assam
 (C) Rajasthan (D) Punjab
188. Which Sikh Guru was tortured and killed on the directions of Aurangzeb ?
 (A) Teg Bahadur
 (B) Arjandev
 (C) Ram Das
 (D) None of these
189. Which of the following Muslim rulers remained in the captivity of his son ?
 (A) Akbar
 (B) Auranzeb
 (C) Shahjahan
 (D) Jahangir
190. Some of the rock-cut temples, known as the seven pagodas, were built by the—
 (A) Pallavas
 (B) Cholas
 (C) Rashtrakutas
 (D) None of these
191. Who amongst the following was impeached in England for acts committed as Governor General of India ?
 (A) Wellesley
 (B) Warren Hastings
 (C) Cornwallis
 (D) Cavendish Bentinck
192. The black hole theory was discovered by—
 (A) Hargobind Khurana
 (B) C. V. Raman
 (C) S. Ramnijan
 (D) S. Chandrashekhar
193. The principal objective of Muhammad-bin-Tughluq in shifting his capital to Daultabad was to—
 (A) Inflict sufferings on the residents of Delhi whom he regarded them unworthy of his benevolence
 (B) Expand his empire to the whole of South India
 (C) Move away from the centre of Rajput resistance to his rule
 (D) Find a better strategic location for the capital of his empire
194. Gujarat is the largest producer of salt in India because—
 (A) It has extensive shallow seas
 (B) It has extensive dry coast
 (C) Its coastal waters are very saline
 (D) Besides producing salt from saline water it has reserves of rock salt
195. Which of the following statements is not correct ?
 (A) Wheat is grown in Punjab
 (B) Tea is produced in Assam
 (C) Coffee is grown in Karnataka
 (D) Saffron is produced in Himachal Pradesh
196. Who is responsible to collect the service Tax ?
 (A) Income Tax Department
 (B) Postal Department
 (C) Central Excise Department
 (D) Commercial Tax Department of the State/Union Territory
197. Which one of the following is not a gland ?
 (A) Liver (B) Kidney
 (C) Stomach (D) Pancreas
198. Potassium permanganate is used for purifying drinking water, because it—
 (A) Is an oxidising agent
 (B) Dissolves the impurities of water
 (C) Is a reducing agent
 (D) None of these
199. Which city is also known as the 'Big Apple' ?
 (A) Canberra, Australia
 (B) Madrid, Spain
 (C) New York, The US
 (D) Lausanne, Switzerland