

Master of Fashion Technology (M.F.Tech)
(GAT)

(Note: These questions are illustrative. The pattern, scope, arrangement, variety, difficulty level, etc in the actual question paper may vary.)

Directions (Questions 1-5) : *Fill in the blank.*

1. The doctor advised him to go _____ several medical tests.
(1) under (2) about (3) through (4) into
2. I prefer this book _____ that.
(1) for (2) to (3) than (4) with
3. I have been working hard _____ last year.
(1) in (2) from (3) for (4) since
4. She says she knows painting, but I don't think she _____.
(1) can (2) knew (3) does (4) had known
5. If they want to succeed, they _____ have to work very hard.
(1) will (2) ought (3) must (4) should

Directions (Questions 6-9) : *In each of the following questions, out of the given alternatives, choose the one which is closest in meaning to the underlined word in the sentence.*

6. Parents should cultivate in their children the habit of helping others.
(1) relax (2) sprout (3) laze (4) foster
7. Scientific knowledge is an intoxicating draught, and it may be one in which the human race is unable to sustain.
(1) drink (2) product (3) disease (4) process
8. He is deluding himself with false hopes.
(1) satisfying (2) entertaining (3) misleading (4) assuring
9. The obstacles seem to be insurmountable, but no one should doubt what this fearless woman can accomplish.
(1) too easy to achieve (2) too difficult to overcome
(3) too tall and too high (4) too trivial to attract attention

Directions (Questions 10-13) : In each of these questions choose the correctly spelt word.

10. (1) Forefiet (2) Forefeit (3) Forfeit (4) Forfiet
11. (1) Comemorate (2) Commemorate (3) Comemorate (4) Commemorate
12. (1) Ommission (2) Omision (3) Omission (4) Ommision
13. (1) Aliennate (2) Allienate (3) Alienate (4) Alienatte

Directions (Questions 14-17) : In each of these questions, select the alternative which best expresses the meaning of the underlined idiom/phrase.

14. He is a plain, simple and sincere man. He will always call a spade a spade.
(1) say something to be taken seriously
(2) desist from making controversial statement
(3) find meaning or purpose in your action
(4) be outspoken in language
15. It is difficult to keep a level head in these days of mounting prices.
(1) remain cool and composed (2) eke out existence
(3) make both ends meet (4) maintain standard of living
16. The robbery was committed in the wee hours of the day.
(1) after midnight (2) at dawn (3) at noontime (4) in the evening
17. Though he has a lot of money, yet all his plans are built upon sand.
(1) based on inexperience (2) resting on immature ideas
(3) resting on cheap material (4) established on insecure foundations

Directions (Questions 18-21) : Choose the order of the sentences marked A, B, C and D to form a logical paragraph.

18. A. If you are used to having your stimulation come in from outside, your mind never develops its own habits of thinking and reflecting.
B. Marx thought that religion was the opiate, because it soothed people's pain and suffering and prevented them from rising in rebellion.
C. If Karl Marx was alive today, he would say that television is the opiate of the people.
D. Television and similar entertainments are even more of an opiate because of their addictive tendencies.
- (1) BACD (2) ADBC (3) BDCA (4) CBDA

19. A. Then two astronomers — the German, Johannes Kepler, and the Italian, Galileo Galilei-started publicly to support the Copernican theory, despite the fact that the orbits it predicted did not quite match the ones observed.
B. His idea was that the sun was stationary at the centre and that the earth and the planets move in circular orbits around the sun.
C. A simple model was proposed in 1514 by a Polish priest, Nicholas Copernicus.
D. Nearly a century passed before this idea was taken seriously.
(1) CDBA (2) CBDA (3) BCAD (4) CADB
20. A. What came out was very large garland made out of currency notes ?
B. The unsuspecting governor opened the box in full view of the gathering.
C. When the RBI governor came to inaugurate the new printing press, the local unit of the ABC party handed him a gift wrapped box.
D. There was a twist — the notes were all as tattered as notes could get.
(1) DACB (2) CABD (3) CBAD (4) DCAB
21. A. The men jumped up and rushed to the river.
B. They poured it on the glowing bed of charcoal.
C. The water gurgled out and the dying embers hissed and sent up little curls of vapour.
D. They quickly came back with pitchers laden with water.
(1) DABC (2) BADC (3) CBAD (4) ADCB

Directions (Questions 22-25) : *In each of these questions, choose the options which can be substituted for the given words/sentence.*

22. The state of being unmarried
(1) Alimony (2) Bigamy (3) Matrimony (4) Celibacy
23. An office with pay but little responsibility
(1) Sinecure (2) Presidency (3) Factotum (4) Plutocracy
24. A long boring speech
(1) Horology (2) Harangue (3) Valediction (4) Filibuster
25. Paying back injury with injury
(1) Vendetta (2) Repression (3) Subjugation (4) Reprisal

Directions (Questions 26-45): Study the passages below to answer the questions that follow each passage.

Passage-I

Demonetisation may have slowed down most businesses but not domestic air travel – at least for now. November saw almost 90 lakh people (89.6 lakh) flying within the country – highest ever number in a single month. "Allaying all growth fears, domestic passenger traffic has again clocked record growth of 22.4% YoY in the demonetization month of November 2016," aviation minister tweeted on Thursday. In November 2015, 73.2 lakh people flew within the country. Some airlines say the government move to allow people to buy tickets from airport counters using old ₹ 500 and ₹ 1000 notes till December 2 contributed significantly to this number. People had also made advance bookings from October to mid-January to attend marriages and festivals. But officials across airlines say domestic business will dip from mid-January when lean season kicks in. "The mood is very subdued and expense on travel is the first to be cut in such times. We are not seeing encouraging advance sales for post January 10 period," said a senior airline official. Explaining the surge in November, a senior Air India official said: "We had serpentine queues at our airport counters across India with people using old ₹ 500 and ₹ 1,000 notes to buy tickets. The airport sales went completely haywire." Almost all airlines had a similar experience.

26. In November 2016, domestic air travel grows at 22.4%, highest _____.
- (1) in two years (2) in five years (3) ever (4) in ten years
27. From January 2017, domestic business is likely to _____.
- (1) increase drastically (2) decrease
(3) increase marginally (4) remain constant
28. Owing to demonetization, a large number of business in India is
- (1) doing well. (2) performing exceeding well.
(3) slowing down. (4) not much effected.
29. As per Air India official, queues out side airport counter _____ in November 2016.
- (1) diminished (2) became shorter
(3) became much longer (4) vanished
30. Which of the following statements is not true?
- (1) Due to demonetization, domestic business is likely to increase considerably after January 2017.
(2) People used old ₹ 500 and ₹ 1000 notes to buy tickets in November 2016.
(3) A number of festivals and marriages also contributed towards increase in sale of air tickets in November 2016.
(4) All these

If you are running out of ideas for your New Year's resolution, consider running. Researchers have found that runners show greater functional connectivity in brain regions important for tasks such as planning and decision-making. "These activities, such as running, that people consider repetitive actually involve many complex cognitive functions – like planning and decision-making – that may have effects on the brain," said one of the researchers, David Raichlen, associate professor at University of Arizona, at Tucson in the United States. For the study, the researchers compared brain scans of young adults engaged in cross-country running to young adults who do not engage in regular physical activity. Participants were roughly of the same age – 18 to 25 – with comparable body mass index and educational levels. The runners, overall showed greater functional connectivity or connections between distinct brain regions within several areas of the brain, including the frontal cortex, which is important for cognitive functions such as planning, decision-making and the ability to switch attention between tasks.

31. Research has shown that running
- (1) may weaken your heart.
 - (2) could deteriorate your eye-sight.
 - (3) improves your brain-functioning.
 - (4) has no effect on your health.
32. Cognitive functioning of your brain impacts your
- (1) ability to take decisions.
 - (2) capability to plan things.
 - (3) ability to shift your attention from one task to another.
 - (4) All these
33. Generally, running is considered
- (1) not a good physical activity.
 - (2) an activity which repeats itself regularly.
 - (3) a useless activity for health.
 - (4) None of these
34. While selecting participants to conduct research, it was ensured that participants were of similar
- (1) academic background.
 - (2) age group.
 - (3) body mass index.
 - (4) All these
35. Which of the following statements is not true?
- (1) Running hampers various connections between different brain regions.
 - (2) Running is recommended as a good hobby for people.
 - (3) Participants for research included those who took part in cross-country running.
 - (4) All these

Rivers meander. Lakes grow and shrink. Engineers build dams and farmers flood fields. Much of the world's water is in constant motion. Scientists with the European Commission's Joint Research Center in Ispra, Italy, working with Google engineers, have used millions of satellite images to illustrate how rivers, lakes and other bodies of water have changed over three decades. The project, which is freely available, will allow researchers to improve climate models and find evidence of the effects of climate change around the world. But even the untrained eye can see the results of drought in the Western United States, for example, or of warming temperatures in the high country north of the Himalayas. The project shows, in more detail than ever before, how nature and people, including human-induced climate change, alter the pathways of water covering about a million square miles of Earth's land surface. The project's scope, as described in a paper published online in the journal Nature, included the entire archive of three Landsat satellites from 1984 to 2015 — about three million high-resolution images, or nearly two quadrillion bytes (1.8 petabytes) of data. The images were processed in the cloud by 10,000 computers using Google's Earth Engine platform classifying each 100-foot by 100-foot pixel as water or land.

36. Using modern technology, we are now in a position to know
- (1) how world's water looked in the past.
 - (2) how world's water will look tomorrow.
 - (3) how world's water looked and looks now.
 - (4) None of these
37. Taking help of computers, we can keep a track of our water resources with
- (1) same accuracy as before.
 - (2) better accuracy than before.
 - (3) much better accuracy and details.
 - (4) not much change as earlier.
38. Researchers are now in a position to describe how our water resources have changed over a period of
- (1) 5 years.
 - (2) 15 years.
 - (3) 20 years.
 - (4) 30 years.
39. Changes in respect of which of the following are now being traced with the assistance of satellite images?
- (1) Lakes
 - (2) Rivers
 - (3) Other water bodies
 - (4) All these
40. Which of the following statements is not true?
- (1) Changes in water resources can only be seen by trained people.
 - (2) Journal 'Nature' has been published online.
 - (3) World's water is constantly changing.
 - (4) All these

Adolescents who spend five hours or more a day using their smartphones, tablets or computers are at a higher risk of becoming obese, a Harvard study has warned. In the study, adolescents spending more than five hours daily on devices were 43% more likely to suffer from obesity compared with those who spent less time on these devices, researchers said. They also found that adolescents who spent more time on the devices were twice as likely to consume sugary drinks and not get enough sleep or physical activity. Researchers from Harvard T H Chan School of Public Health studied data from the 2013 and 2015 waves of the Youth Risk Behaviour Surveillance System, which included 24,800 adolescents in grades 9-12. Researchers found that almost 20% of US adolescents spent more than five hours a day on phones, tablets, and computers compared with only 8% who watched television more than five hours a day. Watching too much television was also associated with obesity and poor diet among adolescents, researchers found. "This study would suggest that limiting children's and adolescent's engagement with other screen devices may be as important for health as limiting television time", said Erica L Kenney from Harvard.

41. Among teens, smartphone addiction may _____ obesity risk.
- | | |
|------------------------|-------------------------|
| (1) cause much reduced | (2) not impact |
| (3) increase | (4) marginally decrease |
42. Excessive TV watching
- | | |
|-------------------------------------|------------------------------|
| (1) has nothing to do with obesity. | (2) helps to reduce obesity. |
| (3) may lead to more obesity. | (4) None of these |
43. Adolescents who spend excessive time on smartphones and computers, etc., may
- | | |
|--|-------------------------------|
| (1) drink more sugary drinks. | (2) experience lack of sleep. |
| (3) lead to reduced physical activity. | (4) All these |
44. According to research conducted on teens in US, number of persons who watch television is _____ as compared with those who spend time with smartphones, computers etc.
- | | |
|---------------|------------------------|
| (1) much less | (2) much more |
| (3) the same | (4) substantially more |
45. Which of the following statements is not true?
- (1) Research was conducted with data of approximately 25,000 adolescents.
 - (2) Television watching and use of screen devices both are harmful for the health of teens.
 - (3) Television watching does not cause much harm to adolescents.
 - (4) All these

46. A number when divided by 6 leaves a remainder 3. When the square of the number is divided by 6, the remainder is _____.
- (1) 0 (2) 1 (3) 2 (4) 3
47. Find the sum of all even natural numbers less than 75.
- (1) 1410 (2) 1406 (3) 1408 (4) 1412
48. Six bells commence tolling together and toll at intervals of 2, 4, 6, 8, 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?
- (1) 4 (2) 10 (3) 15 (4) 16
49. The H.C.F. of two numbers is 8. Which one of the following can never be their L.C.M.?
- (1) 24 (2) 48 (3) 56 (4) 60
50. Simplify : $\frac{5.32 \times 56 + 5.32 \times 44}{(7.66)^2 - (2.34)^2}$
- (1) 7.2 (2) 8.5 (3) 10 (4) 12
51. Mr. Bhaskar is on tour and he has ₹ 360 for his expenses. If he exceeds his tour by 4 days, he must cut down his daily expenses by ₹ 3. For how many days is Mr. Bhaskar on tour?
- (1) 18 days (2) 19 days (3) 20 days (4) 21 days
52. Three-fifth of the square of a certain number is 126.15. What is the number?
- (1) 14.5 (2) 75.69 (3) 145 (4) 210.25
53. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is _____.
- (1) 250 (2) 276 (3) 280 (4) 285
54. In a two-digit number, the digit in the unit's place is four times the digit in ten's place and sum of the digits is equal to 10. What is the number?
- (1) 14 (2) 41 (3) 82 (4) None of these
55. When the numerator of a fraction increases by 4, the fraction increases by $\frac{2}{3}$. The denominator of the fraction is _____.
- (1) 2 (2) 3 (3) 6 (4) 8
56. The ratio between the present ages of P and Q is 6 : 7. If Q is 4 years older than P, what will be the ratio of the ages of P and Q after 4 years?
- (1) 3 : 4 (2) 3 : 5 (3) 4 : 3 (4) None of these

57. If the sales tax be reduced from $3\frac{1}{2}\%$ to $3\frac{1}{3}\%$, then what difference does it make to a person who purchases an article with marked price of ₹ 8400?
 (1) ₹ 13 (2) ₹ 12 (3) ₹ 14 (4) ₹ 15
58. A man bought a horse and a carriage for ₹ 3000. He sold the horse at a gain of 20% and the carriage at a loss of 10%, thereby gaining 2% on the whole. Find the cost of the horse.
 (1) ₹ 1100 (2) ₹ 1200 (3) ₹ 1250 (4) ₹ 1150
59. Two numbers are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is _____.
 (1) 27 (2) 33 (3) 49 (4) 55
60. If the cost of x metres of wire is d rupees, then what is the cost of y metres of wire at the same rate?
 (1) ₹ $\left(\frac{xy}{d}\right)$ (2) ₹ (xd) (3) ₹ (yd) (4) ₹ $\left(\frac{yd}{x}\right)$
61. Two pipes A and B can fill a tank in 24 min. and 32 min. respectively. If both the pipes are opened simultaneously, after how much time B should be closed so that the tank is full in 18 minutes?
 (1) 7 min. (2) 8 min. (3) 9 min. (4) 10 min.
62. In a stream running at 2 kmph, a motorboat goes 6 km upstream and back again to the starting point in 33 minutes. Find the speed of the motorboat in still water.
 (1) 21 kmph (2) 22 kmph (3) 24 kmph (4) 23 kmph
63. In measuring the sides of a rectangle, one side is taken 5% in excess, and the other 4% in deficit. Find the error percent in the area calculated from these measurements.
 (1) 1% (2) 0.9% (3) 0.8% (4) 0.85%
64. A bag contains an equal number of one rupee, 50 paise and 25 paise coins respectively. If the total value is ₹ 35, how many coins of each type are there?
 (1) 20 coins (2) 25 coins (3) 50 coins (4) None of these
65. The average score of girls in the preliminary examination is 75 and that of boys is 70. The average score of all the candidates is 72. What is the ratio of number of girls and boys that appeared in the examination?
 (1) $\frac{3}{4}$ (2) $\frac{2}{3}$ (3) $\frac{1}{2}$ (4) None of these
66. The ratio between the speed of a train and a car is 16:15 respectively. Also, a bus covered a distance of 480 km in 8 hours. The speed of the bus is three-fourth the speed of a train. How much distance will the car cover in 6 hours?
 (1) 450 km (2) 480 km
 (3) 360 km (4) Cannot be determined

67. If the price of coffee is increased by 5%, by how much % must a housewife reduce her consumption of coffee, so as to have no extra expenditure?
- (1) $4\frac{5}{6}\%$ (2) $6\frac{4}{5}\%$ (3) 5% (4) $4\frac{16}{21}\%$
68. Out of a certain sum, $\frac{1}{3}$ is invested at 3%, $\frac{1}{6}$ at 6% and the rest at 8%. If the simple interest for 2 years from all these investments amounts to ₹ 600, find the original sum.
- (1) ₹ 6,000 (2) ₹ 5,000 (3) ₹ 5,500 (4) ₹ 6,500
69. Kiran invested a sum of ₹ 25,000 divided into two schemes A and B providing simple interest of 12% p.a. and 16% p.a. respectively. If she earns ₹ 6,800 in two years, what is the amount invested in scheme A?
- (1) ₹ 5,000 (2) ₹ 15,000 (3) ₹ 10,000 (4) ₹ 20,000
70. A milk vendor has two cans A and B. A contains 80% of milk while B contains 40% of water in mixture of milk and water. How much quantity of mixture should he draw from cans A and B to make a mixture of 10 litres containing 30% of water?
- (1) 5 ltr, 5 ltr (2) 7.5 ltr, 2.5 ltr (3) 6 ltr, 4 ltr (4) 2.5 ltr, 7.5 ltr
71. The funds allotted for house rent, ration and education in a household are in the ratio 3:2:4. These funds are increased by 5%, 10% and 15% respectively. What will be the ratio of these funds now?
- (1) 3:4:5 (2) 4:7:10 (3) 92:63:144 (4) 63:45:92
72. Train A of length 200 m is running at a speed 60 km/hour. Train B of length 130 m coming from the opposite direction, crosses train A in 9 sec. How much time would B take to cross A if it were to come in the same direction of A?
- (1) 110 sec (2) 99 sec (3) 88 sec (4) 66 sec
73. The $f(x) = [x]$, where $[x]$ denotes the greatest integer function, is continuous at _____.
- (1) -2 (2) 1.2 (3) 4 (4) 1
74. The principal value of $\tan^{-1}(-\sqrt{3})$ is _____.
- (1) $\frac{\pi}{3}$ (2) $-\frac{\pi}{3}$ (3) $\frac{2\pi}{3}$ (4) $-\frac{2\pi}{3}$
75. Probability that A speaks truth is $\frac{4}{5}$. A coin is tossed. A reports that a head appears. The probability that actually there was a head is _____.
- (1) $\frac{1}{2}$ (2) $\frac{1}{5}$ (3) $\frac{2}{5}$ (4) $\frac{4}{5}$

Directions (Questions 76-77) : In each of these questions, a statement is followed by two courses of action numbered I and II. Assume everything in the statement to be true. Decide which of the two suggested courses of action logically follows for pursuing. Mark answer as

- (1) if only course of action I follows.
- (2) if only course of action II follows.
- (3) if either course of action I or II follows.
- (4) if neither course of action I nor II follows.

76. *Statement :*

The civic authorities have decided that all the factories located inside the city in the populated areas be shifted outside at the allocated place to reduce the level of environmental pollution in the city to safeguard the health of people living there.

Courses of action :

- I. The pollution level in the city in future shall certainly reduce after these factories are shifted outside the city limit and hence people will enjoy a better health.
- II. Enough usable land is available outside the city limit for these factories.

77. *Statement :*

Company 'A' has intimated all its present suppliers that tender specifications will not be issued to the firms where there is 25% or more default in supplies against the earlier purchase orders placed on them.

Courses of action :

- I. The company 'A' will be watching the quality of performance of its suppliers.
- II. The company 'A' expects quality and professional approach from its suppliers.

Directions (Questions 78-80) : Choose the missing term from given alternatives.

78. SHG, RIF, QJE, PKD, '?'

- (1) OMC (2) OKC (3) BLO (4) OLC

79. 33, 40, 54, 75, 103, '?'

- (1) 138 (2) 141 (3) 143 (4) 149

80. 0, 5, 22, 57, 116, '?'

- (1) 216 (2) 205 (3) 207 (4) 192

Directions (Questions 81-82): In the following groups of letters, one is different from the others. Select the odd one out.

81. (1) KMpS (2) BKXz (3) PiMO (4) PHct

82. (1) SSTO (2) TTOU (3) OOTU (4) USTO

Directions (Questions 83-87) : Study the following data to answer these questions.

Exactly six persons from amongst five boys – A, B, C, D, E and four girls – P, Q, R, S are to sit in six chairs, which are arranged in a row from left to right, and the others must stand. The following conditions are to be adhered to while making the arrangement.

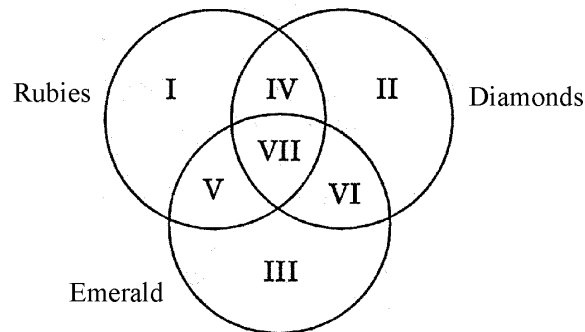
- (i) No two girls sit in adjacent seats.
 - (ii) Exactly three boys should be among those who are seated in these six chairs.
 - (iii) A and P are seated next to each other.
 - (iv) If E sits, then R also sits and vice versa, but they do not sit next to each other.
 - (v) If P or R sits, then Q will stand.
83. If C sits at the extreme left end and A is sitting in the second seat from the extreme right end, then who sits to the immediate right of A ?
- (1) P (2) R
(3) Q (4) Cannot be determined
84. Which of the following is not a valid arrangement of persons sitting from left to right ?
- (1) P, A, E, S, C, R (2) A, P, E, S, C, R (3) S, E, P, A, R, D (4) B, R, E, A, P, Q
85. If D is second from the extreme right, then the total number of possible arrangements is ____.
- (1) 9 (2) 7 (3) 10 (4) 5
86. If P is sitting at the extreme left end, then who could be sitting at the extreme right end ?
- (1) R or E (2) E or S (3) S or R (4) R or E or S
87. If it is known that S sits in the third seat from the extreme left end and B sits in the second seat from the extreme right, then who sits exactly next to two girls ?
- (1) A (2) E (3) B (4) Data Inadequate

Directions (Questions 88-89): Study the following arrangement and answer the questions given below :

R E 5 D A P \$ 3 T I Q 7 9 B # 2 K % U 1 M W 4 * J 8 N

88. Which of the following is exactly in the middle between 3 and 1 in the above arrangement?
- (1) B (2) K (3) 9 (4) #
89. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and not immediately followed by a consonant?
- (1) One (2) Two (3) Three (4) None of these

90. B is the brother of C. A is son of B. E is brother of D. D is daughter of C. Who are the cousins of A?
- (1) C and D (2) C and B (3) B and E (4) D and E
91. If in a certain language GOLDSMITH is coded as 967853421 and SMOOTH is coded as 536621, How is MOLDIT coded in that language ?
- (1) 842763 (2) 678423 (3) 198871 (4) 367842
92. A man walks 100 m in the East and turns to his right. He walks 40 m and again turns right and walks another 40 m. From here he goes 120 m to the North. How far is he now from the starting point ?
- (1) 260 m (2) 140 m (3) 100 m (4) 80 m
93. Showing a man on television, Rekha said, 'He is the brother of my uncle's daughter'. What is the relation of man to Rekha ?
- (1) Son (2) Cousin (3) Nephew (4) Uncle
94. If in a certain language 'rom pom to' means 'girl is bad', 'maim to tee' means 'boy is ugly' and 'dum pom po' means 'they are bad', which word in that language means 'girl'?
- (1) to (2) tee (3) pom (4) rom
95. A designer made a dress studded with precious stones. If circle I represents rubies, circle II diamonds and circle III emerald studded parts, then state which part(s) is/are studded with rubies and emerald.



- (1) III and V (2) V and IV (3) V only (4) VII only

Directions (Questions 96-98): *In each of these questions has an Assertion (A) and Reason (R). Mark answers as*

- (1) if both (A) and (R) are true and (R) is the correct explanation of (A).
- (2) if both (A) and (R) are true but (R) is NOT the correct explanation of (A).
- (3) if (A) is true but (R) is false.
- (4) if (A) is false but (R) is true.

96. **Assertion (A)** : Uttar Pradesh is called the 'Sugar Bowl' of India.
Reason (R) : Uttar Pradesh is the leading producer of sugarcane.
97. **Assertion (A)** : Glass tumbler breaks in winter when hot water is poured in it.
Reason (R) : When hot water is poured, the outer surface of glass expands.
98. **Assertion (A)** : An atom is neutral despite the charged particles in it.
Reason (R) : The neutrons do not have any charge.

Directions (Questions 99-100): *In each of these questions, two statements I & II are provided. These may have a cause and effect relationship or may have independent causes or be the effects of independent causes. Read the statements carefully and mark answer as*

- (1) if Statement I is the 'Cause' and the Statement II is the Effect.
- (2) if Statement II is the 'Cause' and the Statement I is the 'Effect'.
- (3) if both Statements I and II are 'Effects' of independent 'Causes'.
- (4) if both Statements I and II are 'Effects' of a common 'Cause'.

99. Statement I: A proper safety measure is planned immediately to avoid any such incident in the future.
Statement II: The injured students have been taken to the nearest city hospital immediately.
100. Statement I: The government agencies have started educating young people both at schools and outside schools about the various sexually transmitted diseases and methods of preventing them.
Statement II: The awareness regarding AIDS and other sexually transmitted diseases even among educated people is pathetically low.

101. Which couple from Indian film fraternity endorses the famous bedding, curtain, wallpaper etc brand 'Ddecor'?
- (1) Shah Rukh Khan and Gauri Khan (2) Sanjay Dutt and Manyata Dutt
(3) Ajay Devgan and Kajol (4) Abhishek Bachchan and Aishwarya Rai
102. 'RADO', the famous international wrist watch range belongs to _____.
- (1) Switzerland (2) Japan (3) USA (4) France
103. Which Indian film actress is the brand ambassador of online portal 'makemytrip'?
- (1) Sonam Kapoor (2) Alia Bhatt (3) Shraddha Kapoor (4) Amrita Rao
104. In 2016, who won the Nobel Prize in Literature?
- (1) Bernard L Feringa (2) Bob Dylan
(3) Juan Manuel Santos (4) None of these
105. Popular subscription based service 'Prime in India' has been launched by _____.
- (1) Flipkart (2) Snapdeal (3) Amazon (4) Myntra
106. The 'Hawa Mahal' which is one of the main landmarks of Jaipur was built by
- (1) Jai Singh I. (2) Man Singh I.
(3) Madho Singh. (4) Sawai Pratap Singh.
107. At which place was the first successful cotton textile mill established in India in 1854?
- (1) Calcutta (2) Bombay (3) Surat (4) Ahmedabad
108. Who designed the National Flag of India?
- (1) Bankim Chandra Chatterjee (2) Ravidas
(3) Mahatma Gandhi (4) Pingle Venkaiyya
109. Adline 'Making India Beautiful' is linked with
- (1) Croma. (2) Big Bazaar. (3) Life Style. (4) Shoppers Stop.
110. Kargil Victory Day is observed every year on
- (1) 15 June. (2) 26 July. (3) 04 November. (4) 03 April.
111. Who is the new Prime Minister of Nepal?
- (1) K P Sharma Oli (2) Pushpa Kamal Dahal
(3) Pema Khandu (4) None of these
112. Who won the women's 100 meter track and field gold in the Rio Olympic 2016?
- (1) Tori Bowie (2) Elaine Thomson
(3) Shelly-Ann Fraser-Pryce (4) Marie-Josée Ta Lou
113. Jim Yong Kim was recently nominated for the second time as the President of _____.
- (1) IMF (2) World Bank (3) UNICEF (4) None of these

114. A high altitude glaciological research station in Himalaya called Himansh (meaning a slice of ice) began functioning in October 2016 above 13,500 ft in a remote region in _____.
- (1) Jammu & Kashmir (2) Uttarakhand
(3) Himachal Pradesh (4) Sikkim
115. Where was the first BRICS Film Festival organized in September 2016 in India?
- (1) Panaji (2) Hyderabad (3) Delhi (4) Lucknow
116. "SKULT", the athleisure brand is endorsed by _____.
- (1) Shahid Kapoor (2) Ranbir Kapoor (3) Akshay Kumar (4) Ranbeer Singh
117. Which fashion designer duo has created the limited edition 'Gold collection' of the brand YWC Fashion launched by cricketer Yuvraj Singh?
- (1) Shivan Bhatiya and Narresh Kukreja (2) Falguni and Shane
(3) Abu Jani and Sandeep Khosla (4) Shantanu and Nikhil
118. Which Indian sportsperson is seen in the recent ad campaign of the 'Swift', a car model from Maruti Suzuki?
- (1) Vijender Singh (2) PV Sindhu (3) Sania Mirza (4) MS Dhoni
119. Who among the following is the brand ambassador of the global smartphone maker 'Gionee'?
- (1) Kareena Kapoor (2) Alia Bhatt (3) Deepika Padukone (4) Parineeti Chopra
120. Muji a popular lifestyle brand label from _____ launched in India is a joint venture by Reliance India Pvt Ltd with Ryohi-Keikaku.
- (1) China (2) Canada (3) UK (4) Japan
121. 'Proline' is the leading sportswear brand from _____.
- (1) India (2) Italy (3) USA (4) Canada
122. Which online fashion portal has forged in recent past an exclusive online partnership with famed international casual fashion brand 'Esprit'?
- (1) Myntra (2) Yepme (3) Yebhi (4) Jabong
123. American Tourister, the international luggage brand has brought in _____ as its first brand ambassador in India.
- (1) P V Sindhu (2) Vijender Singh
(3) Viswanathan Anand (4) Virat Kohli
124. Who was the title sponsor of the Premier Badminton League (PBL) held in India from 1-14 January 2017?
- (1) Maruti Suzuki (2) Vodafone (3) Amazon (4) Bajaj
125. Who among the following female pop singers is also called as 'Dolphin Princess'?
- (1) Mariah Carey (2) Shakira (3) Jane Zhang (4) Selena Gomez

Directions (Questions 126–138): Read the following business situations and answer questions given at the end of each situation on the basis of information provided in each situation.

Situation–I

Param Enterprises (PE), a firm with about 8 years of experience in FMCG and Confectionary business operates as a District Level Distributor and Super Stockist for Vadilal Ice Cream, Godrej Jump-in and Super Gold Confectionary. The growth recorded by Param Enterprises in last one year is 30% from ₹ 10 crore turnover in 2015. Its profitability is around 2.5% after expenses. Now, there is an opportunity to become a Super Stockist of an MNC brand, but the only condition is that then Param will not be allowed to continue with Super Gold products as there is a clash of product profile. Given the fact that Param Enterprises started its operations with Super Gold and its major revenues come from Super Gold, it is in a dilemma about its action.

126. From the situation, it is obvious that Super Gold is

- (1) a high level brand.
- (2) a middle level brand.
- (3) Nothing can be said.
- (4) None of these

127. Param Enterprises is a firm which has been in trading of confectionaries

- (1) for a few decades.
- (2) and this is one of the few other businesses that they have.
- (3) for about 8 years.
- (4) None of these

128. Your advice to Param Enterprises would be to

- (1) continue with Super Gold.
- (2) go for MNC brand.
- (3) start a new set-up and shift Super Gold there and get MNC brand in PE.
- (4) None of these

129. What is the profit of PE at present?

- (1) ₹ 26.0 Lakh
- (2) ₹ 32.5 Lakh
- (3) ₹ 25.0 Lakh
- (4) None of these

Bull(I) Shoes has been present in the Indian market for the last three years. It started its manufacturing and marketing operations of sports shoes in 2013. The company got wider acceptance because of its foreign collaborator Bull's worldwide presence as a leader in sports shoes and accessories manufacturer. It started the business in India in collaboration with a cash rich company with absolutely no background in shoe manufacturing or marketing. The Indian partner, Horse Variety Ltd. was headed by a woman executive. Bull(I) introduced about 25 different styles to begin with. The shoes were a great success. The first three months of operations recorded a turnover of ₹ 145 crore, which accounted for almost 15% of the market share of the total footwear market. This being fully mechanized manufacturing company, it started producing more than it could sell through its dealer network. As a result, the company had to go to the local shops as well which were known to stock shoes manufactured by unorganized sector. The Bull(I) brands now were being displayed along with practically unknown brands, whereas most of the reputed shoe manufacturers had their company showrooms and other international manufacturers were having their exclusive showrooms. Bull(I) was offering discounts in the range of 15-20% on every style it produced.

130. What, according to you, was the major strength of Bull(I)?

- | | |
|-----------------------------------|------------------------|
| (1) Cash rich background | (2) Worldwide presence |
| (3) Woman Chief Executive Officer | (4) None of these |

131. 'Horse' decision to manufacture and market shoes

- | | |
|--------------------------------------|----------------------------------|
| (1) resulted in wasting money. | (2) resulted in making profits. |
| (3) resulted in generating goodwill. | (4) Nothing can be said about it |

132. Which strength turned into a weakness for Bull(I) ?

- | | |
|---|------------------------------|
| (1) The Indian collaborator | (2) The inventory management |
| (3) The mechanized manufacturing facility | (4) The retailer network |

133. The strategic mistake that Bull(I) seems to have committed in marketing was

- (1) setting up larger than required manufacturing facility.
- (2) going to local shops.
- (3) collaborating with an Indian partner.
- (4) None of these

134. What do you think must have been wrongly assumed by the management of Bull(I)?

- | | |
|---|--------------------------------|
| (1) The international reputation of Bull(I) | (2) The market demand forecast |
| (3) The role of local shops | (4) None of these |

Online jewellery designer and retailer Melorra has closed its first round of funding with \$5 million (about ₹ 33.4 crore) from venture capital firm Lightbox, making this one of the largest-ever seed rounds raised by an Indian venture in recent times. Founded by former Tanishq and Dell senior executive Yeramilli in 2015, Melorra caters to urban Indian women, by developing, designing and retailing contemporary jewellery through its mobile app. "There is a huge gap in the market, which we feel, Melorra is perfectly positioned to fill and grow. The online-jewellery segment has remained underserved for some time now, and Melorra can play a massive role in meeting the needs of the urban millennial segment," said Talwar, partner at Lightbox. The investment is also a departure for Lightbox, which has written a cheque for the first time for a company that has just emerged from stealth mode last week. "We saw the business plan, and saw the opportunities, and had no hesitation in backing the company", Tanwar told. The investment has been made from Lightbox's second fund, the ₹ 600 crore Lightbox Ventures II, which it closed in December 2014. The investment in Melorra is the fifth such by the VC firm, which primarily bets on consumer technology companies, from fund II. It also counts online furniture rental venture Furlenco, online restaurant Faasos and test prep venture Embibe among its portfolio. The round of funding makes this one of the largest seed rounds raised by an Indian startup in the recent past. Melorra will use the proceeds to further build its technology platform, towards marketing and expanding its team. The company, which currently has an employee strength of about 40 people, works with about 10 jewellery manufacturers across the country.

135. Melorra would utilize the funds received from Lightbox for

- (1) recruiting more manpower.
- (2) marketing activities.
- (3) acquiring technology for the business.
- (4) All these

136. VC firm Lightbox Ventures II

- (1) has invested only in Melorra.
- (2) invests only in online ventures.
- (3) has made investment in several companies.
- (4) None of these

137. Presently, online-jewellery segment is

- (1) quite saturated.
- (2) not having much scope to grow further.
- (3) possessing much scope to expand.
- (4) bound to go down in the future.

138. Which of the following statements is not true?

- (1) Melorra is presently working with a few jewellery-makers.
- (2) Online restaurant Faasos has been funded by Lightbox.
- (3) Melorra can meet the jewellery demands of rural women in India.
- (4) All these

Directions (Questions 139-142): Each of these questions has a statement based on the preceding passage. Evaluate each statement and mark answer as

- (1) if the statement is a Major Objective in making the decision: one of the goals sought by the decision maker.
- (2) if the statement is a Major Factor in making the decision: an aspect of the problem, specifically mentioned in the passage, which fundamentally affects and/or determines the decision.
- (3) if the statement is a Minor Factor in making the decision: a less important element bearing on or affecting a Major Factor, rather than a Major Objective directly.
- (4) if the statement is a Major Assumption in making the decision: a projection or supposition arrived at by the decision maker before considering the factor and alternative.

Passage

Xolo, a sub-brand of homebred handset maker Lava International, has fallen on tough times, with slumping sales triggering a restructuring and employee exits. Its performance has been a drag on the parent, which, some estimates show, has dropped two positions since last year to the No. 5 spot in the fiercely competitive Indian market. Marketing and sales teams at Lava and Xolo have been merged as part of a group-level restructuring aimed at reducing duplicate roles and bringing in efficiencies, several people close to the development told media. Over the past few months, quite a few marketing and sales employees from Xolo have joined competitors, while some have been absorbed by Lava, one of them said. The company has shifted retail sales of Lava-branded devices exclusively to offline channels and Xolo to online platforms. The restructuring, most of the people media spoke to; said, has been triggered by a sharp decline in Xolo's sales – shipments, including of locally manufactured handsets, fell almost 70% from a year earlier in the third quarter through September, as per Hong Kong based market research firm Counterpoint Research. According to CyberMedia Research, Xolo's shipments in the third quarter were less than half – around 45% – of the average shipment in the previous two quarters. But Lava alone has done well. Excluding Xolo, Lava's sales grew sequentially every quarter in 2015, a year that it is set to close with 100% expansion in smartphone volume, Counterpoint said. A shift in focus at Lava International may have led to the changes at Xolo. "Xolo has been cutting down heavily on its product portfolio to make sure it doesn't end up cannibalizing its parent brand's IRIS series," said a senior analyst at Counterpoint. Since its launch in 2012, the Xolo brand has been managed and led separately within Lava International. But brand positioning has been a problem. While Lava wanted to carve a premium brand out of Xolo, its overall positioning of a low-to-medium range brand didn't help it succeed in earning that premium tag. As its products didn't do well and sales fell, Xolo's portfolio of phones, too, shrank, though it still launched models such as the Black and Era. Business Head, Xolo said there are periodic inventory corrections, which lead to wide variance between imports and sales. Xolo has nearly 90% of production happening in India and sales to customers are consistently above 1,50,000 a month, Business Head, Xolo said. Quarterly sales have been 4,50,000-5,00,000 units in the last year or so, he said. "Online sales have increased from 15% to well over 50% now. We foresee this strategic shift to become the bedrock of Xolo's next level," Business Head, Xolo said. CyberMedia's lead telecom analyst said Xolo hadn't been able to keep pace with the changing market requirements. "It has only two 4G models to offer and with very low shipments. As against the industry average of 10% shipments of the total phones shipped in the first three quarters of CY 2015, Xolo's 4G shipments were just under 3% of their total shipments," he said.

139. There is a shift in focus at Lava International.
140. The strategic shift will become the bedrock of Xolo's next level.
141. The company aims to reduce duplicate roles and bring efficiency.
142. There has been a sharp decline in Xolo's sales.

Directions (Questions 143-150): *These questions are based on passages followed by several inferences. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.*

Mark answer as

- (1) if the inference is 'definitely true' i.e., it directly follows from the facts given in the passage.
- (2) if the inference is 'probably true' though not definitely true in the light of the facts given.
- (3) if you think the inference is 'probably false' though not definitely false in the light of the facts given.
- (4) if you think the inference is 'definitely false' i.e., it contradicts the given facts.

Passage-I

Self-medication has evolved rapidly over the years to provide symptomatic relief for minor ailments. One can safely define responsible self-medication, as the informed and rationale choice of consumers, to treat themselves and their family members with appropriate, affordable drugs of acceptable quality. Responsible self-medication can help prevent and treat symptoms and ailments that do not require medical consultation. Moreover, it also reduces the increasing pressure on medical services for the relief of minor ailments, especially when financial and human resources are limited. Worldwide, more and more governments are accepting the self-medication concept. Self-medication is a fact of life. With its broad use and social acceptance, no health policy should ignore self-medication. Rather, health policy should ask how this momentum can be leveraged to help achieve its objective.

143. Self-medication can even cure severe and complicated ailments.
144. The use of self-medication has not been accepted widely by the Governments and society.
145. Self-medication reduces considerably pressure on health care system of any country.
146. Only knowledgeable consumers should be encouraged to practice self-medication.

The force of technological change will have an impact on the manufacturing industry. But the real effect will be on the information processing industry like software development, service industries like airlines, insurance and consulting – both technical and managerial, designing and executing jobs. Another feature of technological change by the end of century will be the resistance to change from within and outside the organizations. Satisfactory resolutions will require a high degree of mutual cooperation between Government and Industry, Industry and its users, Management and Unions and within organizations across functions.

147. The information processing industry has been less amenable to technological change than the manufacturing industry.

148. The technological change will have an impact on the manufacturing by industry.

149. As compared to service industry, the manufacturing industry will be less affected by the technological change.

150. Technological change has already set in.