

GIM BBA

Sample Paper 1 with Q & A



Disclaimer: This content is not created or owned by Info Edge (India) Limited

Source: <http://gim.gitam.edu/admissions/sample-papers>

Sample papers

GOT

Aptitude Test

Syllabus

Structure of GOT – UG & PG Test is as given below

Section No	Section Name	GOT-UG	GOT-PG
1	English Language	10	30
2	Quantitative	15	30
3	Reasoning and Intelligence	15	20
4	General Knowledge	10	-
5	Data Interpretation	-	20

NOTE:

- a. a. The total time for answering 50 questions is 60 minutes for GOT-UG Test . GOT PG candidates are required to answer 100 questions in 90 minutes.
- b. b. GOT-PG is similar to MAT conducted by AIMA. The candidate may prepare for the exam using any MAT Preparatory book.
- c. c. GOT-UG test is similar to UGAT conducted by AIMA. The candidate may prepare for the exam using any preparatory books on UGAT that is available in leading Book shops.

Section I : Language Comprehension

Directions (Qs. 1 to 5) : Read the passage given below carefully and then answer these questions based on what is stated or implied in the passage.

Anxiety and conscience are a pair of powerful dynamos. Of course, I can only speak for myself. Between them, they have ensured that one shall work hard, but they cannot ensure that one shall work at anything worthwhile. They are blind forces which drive but do not direct. Fortunately, I have also been moved by a third motive—the wish to see and understand. Curiosity is another motive for action. It is also one of the distinctive characteristics of human nature and contrasted with the natures of non-human animals. All human beings have curiosity in some degree and we also all have it about things which are of no practical use.

Curiosity may be focussed on anything in the universe, but the spiritual reality of the phenomena should be the ultimate objective of all curiosity for it to be fruitful. Thanks to my mother my approach to this ultimate objective is through the story of human affairs.

1. What is the main objective of this passage ?

- (1) Distinguish between human beings and animals
- (2) Project curiosity as a potent motivating factor
- (3) Project anxiety and conscience as inadequate motivators
- (4) Motivation and spiritual reality

2. A characteristic peculiar to human beings that is referred to is

- (1) Superior intelligence
- (2) Spirit of enquiry
- (3) Capacity to rationalise and analyse
- (4) Ability to sift the practical from the impractical

3. Which of the following statements is true according to the passage ?

- (1) Animals are as curious as human beings
- (2) Curiosity is the only motive for action
- (3) People motivated by curiosity do not need other motives to guide them
- (4) People motivated by anxiety and conscience alone can be misdirected

4. According to the author

- (1) Those who have little curiosity are curious about unimportant things
- (2) Apart from humans no other living beings have the gift of curiosity
- (3) The highest form of curiosity can be satisfied by study of human affairs alone.
- (4) Spiritual reality is the ultimate goal of humans through action

5. The author subscribes to the view

- (1) One's curiosity should focus beyond the facade on the latent meaning of things
- (2) Curiosity is an inherited family characteristic
- (3) A study of human affairs is the most effective method of satisfying one's curiosity
- (4) In order to motivate, curiosity must be coupled with anxiety and conscience

Directions (Qs. 6 to 10) : Read the passage given below and then answer these questions which are based on what is stated or implied in the passage.

Soft-bodied animals like caterpillars often fall a prey to voracious hunters like birds or reptiles. Despite having no means to 'actively' defend themselves, with weapons like claws or jaws, they have, nevertheless, evolved *other equally effective deterrents*. A particular species of the caterpillar lives at an altitude of over 2,500 metres in the Himalayas. It uses prominent colours to inform would-be predators of its inedibility. In the event that an inexperienced or adventurous bird did eat the caterpillar, it would probably vomit it out soon after, and subsequently desist from attacking similar species in the future. Though this would do the unfortunate victim no good, the species benefits. A rare example of the martyr among animals.

6. Caterpillars cannot defend themselves because they

- (1) Are passive animals
- (2) Are lazy
- (3) Cannot acquire weapons
- (4) Have no claws or jaws

7. The expression 'other equally effective deterrents' means

- (1) Preventive weapons which have equal effect on others
- (2) Mechanism which scares everyone equally well
- (3) Preventive equipment which is as effective as something that has been already mentioned
- (4) Deterrents that are as powerful as those the caterpillars have.

8. The Himalayan caterpillar uses prominent colours to

- (1) Warn the predator
- (2) Attack the predator
- (3) Reveal itself
- (4) Defend itself

9. Experienced birds do not attack the Himalayan caterpillar because they are

- (1) Repulsive
- (2) Inedible
- (3) Aggressive
- (4) Diseased

10. In the context of the passage, a martyr is one who dies

- (1) Without putting up resistance
- (2) Without any gain to oneself
- (3) While defending one's homeland
- (4) To save others

Directions (Qs. 11 to 16) : In these questions, choose the word from the four alternatives (1), (2), (3) and (4) that is most nearly *similar* in meaning to the word given in CAPITAL letters.

11. REVULSION

- (1) Apathy
- (2) Violence
- (3) Disgust
- (4) Avenge

12. GRIT

- (1) Bold
- (2) Courage
- (3) Grease
- (4) Level

13. SALACIOUS

- (1) Obscene (2) Wise
(3) Wholesome (4) Confident

14. CLOUT

- (1) Fear (2) Claw
(3) Joke (4) Power

15. FOMENT

- (1) Instigate (2) Shield
(3) Frustrate (4) Waver

16. REPERCUSSION

- (1) Reaction (2) Acceptance
(3) Resistance (4) Magnificence

Directions (Qs. 17 to 22) : In these questions, choose the word from the four alternatives (1), (2), (3) and (4) that is most nearly *opposite* in meaning to the word given in CAPITAL letters.

17. COMPASSIONATE

- (1) Indecisive (2) Unsympathetic
(3) Unlawful (4) Untrustworthy

18. RESTIVE

- (1) Buoyant (2) Placid
(3) Resistant (4) Insolent

19. GRADUAL

- (1) Energetic (2) Dynamic
(3) Rapid (4) Enthusiastic

20. RUDIMENTARY

- (1) Developed (2) Polite
(3) Pale (4) Weak

21. SALVAGE

- (1) Burn (2) Remove
(3) Confuse (4) Lose

22. SEDENTARY

- (1) Vivid (2) Afraid
(3) Indolent (4) Active

Directions (Qs. 23 to 28) : In these questions, each sentence has a blank indicating that something has been omitted. Beneath each sentence, four alternatives (1), (2), (3) and (4) are given. Choose the word or set of words for each blank that best fits in the blank without changing the meaning of the sentence as a whole.

23. If you do not, all your monthly expenses would exceed your income.

- (1) Economise (2) Spend
(3) Save (4) Splurge

24. The magician the rabbit into a pigeon.

- (1) Transformed (2) Transfigured
(3) Converted (4) Made

25. The cost of this operation has our small store of money.

- (1) Destroyed (2) Damaged
(3) Depleted (4) Affected

26. He had taken the shocking news quietly, neither fate nor uttering any word of bitterness.

- (1) Submitting to (2) Railing against
(3) Conspiring with (4) Dissenting from

27. The greater increase in population, the harder it is for people to find adequate housing.

- (1) Of (2) The
(3) Is the (4) Is of the

28. Capitalist society profit as a valued goal.

- (1) Which regards (2) Regarded
(3) Was regarded (4) Regards

Directions (Qs. 29 to 34) : In these questions, each sentence has four underlined words or phrases marked A, B, C and D. Choose the one that must be changed to make the sentence correct.

29. Many psychologists today suggest (A)/ that we interpret dreams by compare (B)/ the dreams with (C)/ the reality of each person's (D)/ life.

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

30. When (A)/ I came home, the (B)/ children still didn't finish (C)/ dinner. (D)

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

31. He would (A)/ never have taken the job if he had been knowing (B)/ what great demands (C)/ it would make (D)/ on his time.

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

32. Schools in India can be supported (A)/ either by government budgets (B)/ and (C)/ by private foundations. (D)

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

33. Delhi is definitely (A)/ one of the (B)/ most large (C)/ cities (D)/ in the world.

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

34. Both (A)/ personality and external looking (B)/ vary (C)/ greatly even among (D)/ brothers and sisters.

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

Directions (Qs. 35 to 40) : In each of these questions, a related pair of words is followed by four pairs of words (1), (2), (3) and (4). Choose the pair that best expresses a relationship similar to that expressed in the original pair.

35. Treasure : Chest : :

- (1) Money : Account
(2) Coins : Mint
(3) Finance : Exchequer
(4) Cash : Vault

36. Wool : Warmth : :

- (1) Radio : Broadcast
(2) Person : Success
(3) Marketing : Advertising
(4) Spring : Elasticity

37. Goose : Gander : :

- (1) Dog : Pup (2) Sheep : Flock

(3) Doe : Stag

(4) Horse : Bridle

38. Torch : Liberty : :

- (1) Laws : Court
(2) Scales : Justice
(3) Balance : Equity
(4) Weights : Measure

39. Greenhouse : Plant : :

- (1) Incubator : Infant
(2) Hen house : Chicken
(3) Hive : Bee
(4) Archives : Document

40. Whisper : Speak : :

- (1) Listen : Bear
(2) Request : Ask
(3) Brush : Touch
(4) Heat : Chill

ANSWERS

- | | | | |
|-------------------------------------------------|----------------|----------------|----------------|
| 1. (4) | 2. (2) | 3. (4) | 4. (4) |
| 5. (4) | 6. (4) | 7. (3) | 8. (4) |
| 9. (2) | 10. (4) | 11. (3) | 12. (2) |
| 13. (1) | 14. (4) | 15. (1) | 16. (1) |
| 17. (2) | 18. (1) | 19. (3) | 20. (1) |
| 21. (1) | 22. (4) | 23. (3) | 24. (1) |
| 25. (3) | 26. (2) | 27. (3) | 28. (4) |
| 29. (2) : It should be 'comparing'. | | | |
| 30. (3) : It should be 'hadn't finished' | | | |
| 31. (2) : It should be 'known'. | | | |
| 32. (3) : It should be 'or'. | | | |
| 33. (3) : It should be 'largest'. | | | |
| 34. (4) : It should be 'between'. | | | |
| 35. (4) | 36. (4) | 37. (3) | 38. (2) |
| 39. (1) | 40. (2) | | |

Section II : Mathematical Skills

41. Father's age is 4 times that of his son. 5 years back, it was 7 times. His age now is

- (1) 30 (2) 35 (3) 40 (4) 45

42. A salesman averages Rs. 240 during a normal 40-hour week. During a sale, his rates are increased by 50%.

What is his commission if he puts in 60 hours during the sale ?

- (1) 390 (2) 540 (3) 600 (4) 640

43. What is the next number in the series given below ?

2, 5, 9, 14, 20

- (1) 25 (2) 26 (3) 27 (4) 28

44. If two numbers are in the ratio 6 : 13 and their least common multiple is 312, then the sum of the numbers is
 (1) 75 (2) 57 (3) 76 (4) 67

45. If $\frac{5a + 3b}{2a - 3b} = \frac{23}{5}$, then the value of a : b is
 (1) 2 : 1 (2) 1 : 4
 (3) 1 : 2 (4) 4 : 1

46. Two dice are tossed. The probability that the total score is a prime number is

(1) $\frac{1}{6}$ (2) $\frac{5}{12}$ (3) $\frac{1}{2}$ (4) $\frac{7}{9}$

47. In how many ways can six different rings be worn on four fingers of one hand?

(1) 10 (2) 12
 (3) 15 (4) 16

48. What is the next number in the series given below?

53, 48, 50, 50, 47

(1) 51 (2) 46
 (3) 53 (4) 52

49. A travels from B to C a distance of 250 miles in 5.5 hours. He returns to B in 4 hours 40 minutes. His average speed is

(1) 44 (2) 46
 (3) 48 (4) 50

50. A machine is sold at a profit of 10%. Had it been sold for Rs. 40 less, there would have been a loss of 10%. What was the cost price?

(1) Rs. 175 (2) Rs. 200
 (3) Rs. 225 (4) Rs. 250

51. I derive an annual income of Rs. 688.25 from Rs. 10,000 invested partly at 8% p.a. and partly at 5% p.a. simple interest. How much of my money is invested at 5%?

(1) Rs. 3,725 (2) Rs. 4,225
 (3) Rs. 4,800 (4) Rs. 5,000

52. A right-angled triangle has a hypotenuse of 13 cm and one side of 12 cm. Its area is

(1) 30 (2) 39 (3) 80 (4) 78

53. A circular park of 20-metre diameter has a circular path just inside the boundary of width 1 metre. The area of the path is

(1) 15π (2) 17π
 (3) 19π (4) 25π

54. An inspector rejects .08% of the meters as defective. How many will he examine to reject 2?

(1) 200 (2) 250
 (3) 2500 (4) 3000

55. In a survey, it was found that 65% of the people watched news on TV, 40% read in newspaper, 25% read newspaper and watched TV. What percentage of people neither watched TV nor read newspaper?

(1) 0% (2) 5%
 (3) 10% (4) 20%

56. x% of y is y% of

(1) x (2) $\frac{y}{100}$ (3) $\frac{x}{100}$ (4) 100x

57. A can do a work in 18 days, B in 9 days and C in 6 days. A and B start working together and after 2 days C joins them. What is the total number of days taken to finish the work?

(1) 4.33 (2) 4.5
 (3) 4.66 (4) 5.33

58. The surface area of a cube is 150 sq cm. What is the length of its diagonal in cm?

(1) 5 (2) $\frac{5\sqrt{3}}{2}$ (3) $5\sqrt{3}$ (4) $5\sqrt{2}$

59. What is the missing figure in the expression given below?

$$\frac{16}{7} \times \frac{16}{7} - \frac{*}{7} \times \frac{9}{7} + \frac{9}{7} \times \frac{9}{7} = 1$$

(1) 1 (2) 7 (3) 4.57 (4) 32

60. If the circumference and the area of a circle are numerically equal, then what is the numerical value of the diameter ?

- (1) 1 (2) 2 (3) 4 (4) π

61. In a house, there are six 40-watt lamps which are on for 5 hours a day and three 80-watt fans which are on for 10 hours a day. If electricity costs Rs. 2 per kilowatt hour, what is the monthly electricity bill ?

- (1) Rs. 216 (2) Rs. 280
(3) Rs. 315 (4) Rs. 400

62. A driver's income consists of his salary and tips. During one week his tips were $\frac{5}{4}$ of his salary. What fraction of his income came from tips ?

- (1) $\frac{4}{9}$ (2) $\frac{5}{9}$
(3) $\frac{5}{8}$ (4) $\frac{5}{4}$

63. A house costs C rupees. Later it was sold for a profit of 25%. What is the capital gains tax if it is 50% of the profit ?

- (1) $\frac{C}{24}$ (2) $\frac{C}{8}$
(3) $\frac{C}{4}$ (4) $\frac{C}{2}$

64. What is the value of the following expression ?

- $(1+x)(1+x^2)(1+x^4)(1+x^8)(1-x)$
(1) $1+x^{16}$ (2) $1-x^{16}$
(3) $x^{16}-1$ (4) x^8+1

65. In a triangle ABC, $\angle A = 90^\circ$ and D is mid-point of AC. The value of $BC^2 - BD^2$ is equal to

- (1) AD^2 (2) $2AD^2$
(3) $3AD^2$ (4) $4AD^2$

66. If an angle is its own complementary angle, then its measure is

- (1) 30 (2) 45
(3) 60 (4) 90°

67. Which of the following equations has real roots ?

- (1) $3x^2 + 4x + 5 = 0$
(2) $x^2 + x + 4 = 0$
(3) $(x-1)(2x-5) = 0$
(4) $2x^2 - 3x + 4 = 0$

68. A wire is in the form of a circle of radius 35 cm. If it is bent into the shape of a rhombus, what is the side of the rhombus ?

- (1) 32 cm (2) 70 cm
(3) 55 cm (4) 17 cm

69. In a G.P., the first term is 5 and the common ratio is 2. The eighth term is

- (1) 640 (2) 1280
(3) 256 (4) 160

70. How much water must be added to 100 cc of 80% solution of boric acid to reduce it to a 50% solution ?

- (1) 30 (2) 40
(3) 50 (4) 60

71. What is the value of $\frac{P+Q}{P-Q}$ if

$$\frac{P}{Q} = 7 ?$$

- (1) $\frac{4}{3}$ (2) $\frac{2}{3}$ (3) $\frac{2}{6}$ (4) $\frac{7}{8}$

72. If the arithmetic mean of two numbers is 5 and geometric mean is 4, then the numbers are

- (1) 4, 6 (2) 4, 7
(3) 3, 8 (4) 2, 8

73. X is what percent of $\frac{4}{5}$ th of X ?

- (1) 75 (2) 80
(3) 120 (4) 125

74. Square root of 117649 is

- (1) 347 (2) 343
(3) 353 (4) 357

75. Cube root of 658503 is

- (1) 83 (2) 77
(3) 87 (4) 97

76. Two rockets approach each other, one at 42,000 mph and the other at 18,000 mph. They start 3256 miles apart. How far are they apart (in miles) 1 minute before impact ?

- (1) 1628 (2) 1000
(3) 826 (4) 1200

77. A bought 4 bottles of beer and B bought one bottle of lager, lager per bottle costing twice that of the beer. C bought nothing but paid Rs. 50 for his share of the drink which they mixed together and shared equally. If C's Rs. 50 covered his share, then what is the cost of the lager ?

- (1) 50 (2) 75 (3) 30 (4) 46

78. In a class, 20 opted for Physics, 17 for Maths, 5 for both and 10 for other subjects. The class contains how many students ?

- (1) 35 (2) 42
(3) 52 (4) 60

79. In a community of 175 persons, 40 read the *Times*, 50 read the *Samachar* and 100 do not read any. How many persons read both the papers ?

- (1) 10 (2) 15
(3) 20 (4) 25

80. A worker is paid Rs. 56 for 35-hour week. Upto 40 hours, he is paid at the normal rate and on overtime, 1.5 times the normal. How many hours did he work to get Rs. 88 ?

- (1) 48 (2) 52
(3) 58 (4) 55

ANSWERS

41. (3) : $F = 4S$, $(F - 5) = 7(S - 5)$
 $\Rightarrow F = 40$, $S = 10$

42. (2) : Rate is increased from Rs. 6 per hour to Rs. 9 per hour.

43. (3) : The sequence in the given series is + 3, + 4, + 5, + 6, + 7.

44. (3) : Let the numbers be $6k$ and $13k$.
L.C.M. = 312
L.C.M. of $6k$ and $13k$
 $= 6 \times 13 \times k$
 $\therefore 6 \times 13 \times k = 312$
 $\Rightarrow k = 4$.

\therefore Numbers are 24 and 52.

\therefore Sum = $24 + 52 = 76$

45. (4) : $\frac{5a + 3b}{2a - 3b} = \frac{23}{5}$
 $\Rightarrow 25a + 15b = 46a - 69b$
 $\Rightarrow 21a = 84b \Rightarrow a = 4b$
 $\Rightarrow \frac{a}{b} = \frac{4}{1}$

46. (2) : The event "Total score is a prime number when two dice are tossed" occurs in the following 15 ways : (1, 1), (1, 2), (1, 4), (1, 6), (2, 1), (2, 3), (2, 5), (3, 2), (3, 4), (4, 1), (4, 3), (5, 2), (5, 6), (6, 1), (6, 5).

\therefore Required probability

$$= \frac{15}{36} = \frac{5}{12}$$

47. (3) : 8C_4 ways, i.e. 8C_2 ways, i.e.

$$\frac{6 \times 5}{2 \times 1} = 15 \text{ ways}$$

48. (4) : The numbers at even places form an A.P., e.g. 48, 50, 52,

49. (4) : A travels 500 miles in 10 hours

10 minutes, i.e. $10 \frac{1}{6}$ hours.

\therefore Average Speed

$$= \frac{500}{10 \frac{1}{6}} = \frac{500 \times 6}{61}$$

$$= \frac{3000}{61} = 49.18 \approx 50$$

50. (2) : Let the C.P. be Rs. k .

$$\therefore \text{S.P.} = k + 10\% \text{ of } k = \frac{11k}{10}$$

$$\therefore k - 10\% \text{ of } k = \frac{11k}{10} - 40$$

$$\Rightarrow \frac{9k}{10} = \frac{11k}{10} - 40$$

$$\Rightarrow \frac{2k}{10} = 40$$

$$\Rightarrow k = 200$$

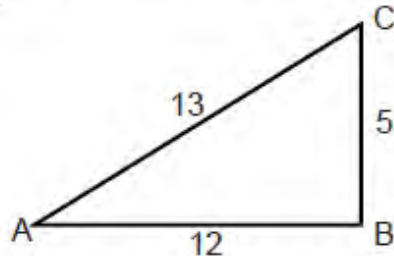
51. (1): Let money invested at 5% be Rs. k.

$$\therefore \frac{k \times 1 \times 5}{100} + \frac{(10000 - k) \times 1 \times 8}{100} = 688.25$$

$$\Rightarrow 5k - 8k + 80000 = 68825$$

$$\Rightarrow 3k = 11175 \Rightarrow k = 3725$$

52. (1):



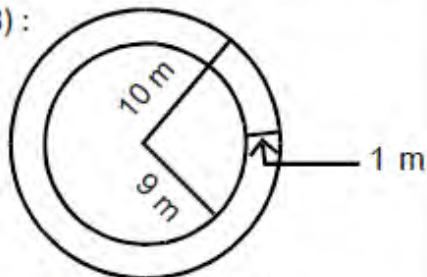
For a right-angled triangle ABC given above,

$$BC^2 = AC^2 - AB^2 \Rightarrow BC = 5$$

\therefore Area of ΔABC

$$= \frac{1}{2} \times AB \times BC = 30$$

53. (3):



Area of the path

$$= \pi \times 10^2 - \pi \times 9^2$$

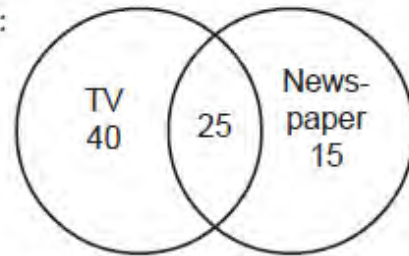
$$= \pi(100 - 81) = 19\pi$$

54. (3): .08% of k = 2, say

$$\Rightarrow \frac{.08}{100} k = 2 \Rightarrow k = \frac{200}{.08}$$

$$\Rightarrow k = \frac{200 \times 100}{8} = 2500$$

55. (4):



80% of the people either watched TV or read newspaper.

\therefore 20% neither watched TV nor read newspaper.

56. (1): x% of y = y% of k, say

$$\therefore \frac{xy}{100} = \frac{yk}{100} \Rightarrow k = x$$

57. (None): (A + B + C)'s one day's work

$$= \frac{1}{18} + \frac{1}{9} + \frac{1}{6} = \frac{1+2+3}{18}$$

$$= \frac{1}{3}$$

(A + B)'s one day's work

$$= \frac{1}{18} + \frac{1}{9} = \frac{1+2}{18} = \frac{1}{6}$$

$$(A + B)'s 2 days' work = \frac{1}{3}$$

Remaining $\frac{2}{3}$ of the work is finished by A, B and C together in 2 days.

\therefore Total number of days taken to finish the work = 4

58. (3): Let a be the side of the cube.

$$\therefore 6a^2 = 150 \Rightarrow a = 5$$

\therefore Length of the diagonal of the cube

$$= \sqrt{a^2 + (\text{Diagonal of the face of the cube})^2}$$

$$= \sqrt{a^2 + a^2 + a^2}$$

$$= \sqrt{3}a = 5\sqrt{3}$$

$$59. (4): -\frac{*}{7} \times \frac{9}{7} = -\frac{256}{49} - \frac{81}{49} + 1$$

$$\Rightarrow -* \times 9 = -256 - 81 + 49$$

$$\Rightarrow * = 32$$

60. (3): Let r be the radius of the circle.

$$\therefore 2\pi r \approx r^2 \Rightarrow 2r \approx r^2$$

$$\Rightarrow r \approx 2 \Rightarrow 2r \approx 4$$

$$\Rightarrow \text{Diameter} \approx 4$$

61. (1): Consumption per day

$$= 6 \times 40 \times 5 + 3 \times 80 \times 10$$

$$= 1200 + 2400 = 3600 \text{ watt}$$

$$= 3.6 \text{ kilowatt}$$

Consumption in a month

$$= 3.6 \times 30 = 108 \text{ kilowatt}$$

$$\therefore \text{Monthly bill} = 108 \times 2$$

$$= \text{Rs. } 216$$

62. (2): Let salary of the driver be Rs. k . Therefore, income from

$$\text{tips} = \text{Rs. } \frac{5}{4} k$$

Therefore, total income

$$= k + \frac{5}{4} k = \frac{9k}{4}$$

$$\Rightarrow \frac{5}{9} \text{ of } \frac{9k}{4} = \frac{5}{4} k$$

$$\Rightarrow \frac{5}{9} \text{ of total income}$$

= Income from tips

63. (2): C.P. = Rs. C

$$\text{Profit} = 25\% \text{ of } C = \frac{C}{4}$$

$$\text{S.P.} = C + \frac{C}{4} = \frac{5C}{4}$$

$$\text{If } \frac{C}{4} = 50\% \text{ profit, then}$$

Capital Gains Tax

$$= 50\% \text{ of } \frac{C}{4} = \frac{C}{8}$$

64. (2): Given expression

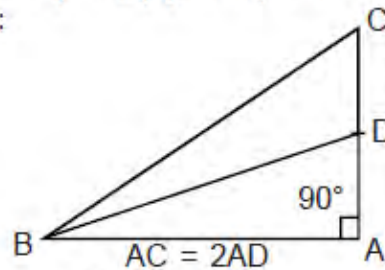
$$= (1-x)(1+x)(1+x^2)$$

$$= (1-x^2)(1+x^2)$$

$$= (1-x^4)(1+x^4)$$

$$= (1-x^8)(1+x^8) = 1-x^{16}$$

65. (3):



$$BC^2 - BD^2$$

$$= (AB^2 + AC^2) - (AB^2 + AD^2)$$

$$= AC^2 - AD^2$$

$$= (AC + AD)(AC - AD)$$

$$= (2AD + AD)(2AD - AD)$$

$$= 3AD^2$$

66. (2): Let x be the angle.

$$\therefore x = 90 - x \Rightarrow x = 45^\circ$$

67. (3): If the equation $ax^2 + bx + c = 0$ has real roots, then

$$b^2 - 4ac > 0.$$

$$(1) \Rightarrow b^2 - 4ac = 16 - 60 < 0$$

$$(2) \Rightarrow b^2 - 4ac = 1 - 16 < 0$$

$$(3) \Rightarrow 2x^2 - 7x + 5 = 0$$

$$\Rightarrow b^2 - 4ac = 49 - 40 = 9 > 0$$

$$(4) \Rightarrow b^2 - 4ac = 9 - 32 < 0$$

68. (3): Perimeter of the circle

$$= 2 \times \frac{22}{7} \times 35 = 220 \text{ cm}$$

$$\therefore \text{Side of the Rhombus}$$

$$= 55 \text{ cm}$$

69. (1): n th term of a G.P. = ar^{n-1}
where a = first term and r is the common ratio.

$$\begin{aligned} \therefore \text{8th term} &= 5 \times (2)^7 \\ &= 5 \times 128 = 640 \end{aligned}$$

70. (4): In 100 cc solution, quantity of baric acid = 80 cc and quantity of water = 20 cc. Suppose x litres of water be added to make the solution 50%.

$$\begin{aligned} \therefore 50\%(100 + x) &= 80 \\ \Rightarrow x &= 60 \end{aligned}$$

$$\begin{aligned} \text{71. (1): } \frac{P+Q}{P-Q} &= \frac{\frac{P}{Q} + 1}{\frac{P}{Q} - 1} = \frac{7+1}{7-1} \\ &= \frac{8}{6} = \frac{4}{3} \end{aligned}$$

72. (4): Let x, y be the numbers.

$$\therefore \frac{x+y}{2} = 5$$

$$\text{and } \sqrt{xy} = 4 \Rightarrow xy = 16$$

$$\begin{aligned} \therefore x+y &= 10, xy = 16 \\ \Rightarrow (x-y)^2 &= (x+y)^2 - 4xy \\ &= 100 - 64 = 36 \end{aligned}$$

$$\begin{aligned} \Rightarrow x-y &= 6 \\ \therefore x &= 8, y = 2 \end{aligned}$$

73. (4): Suppose $X = k\%$ of $\frac{4}{5}X$

$$\Rightarrow X = \frac{k}{100} \times \frac{4}{5}X \Rightarrow k = 125$$

74. (2): $117649 = 7 \times 7 \times 7 \times 7 \times 7 \times 7$

$$\therefore \sqrt{117649} = 7 \times 7 \times 7 = 343$$

75. (3): $658503 = 3 \times 3 \times 3 \times 24389 = 3 \times 3 \times 3 \times 29 \times 29 \times 29$

$$\therefore \sqrt[3]{658503} = 3 \times 29 = 87$$

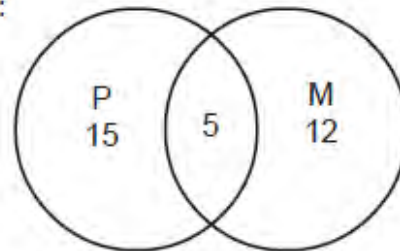
76. (2): Because they cover 60000 miles in 60 minutes, i.e. 1000 miles in one minute, therefore,

they should be 1000 miles apart, 1 minute before impact.

77. (1): Let cost of beer = Rs. x/bottle
 \therefore cost of lager = Rs. 2x/bottle
 \therefore A spent Rs. 4x and B spent Rs. 2x. C paid Rs. 50.

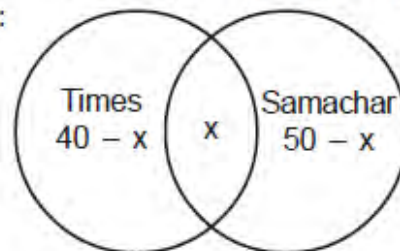
\therefore Cost of Lager = Rs. 50 per bottle
 Cost of beer = Rs. 12.50 per bottle

78. (2):



\therefore Total number of students in the class = $15 + 5 + 12 + 10 = 42$

79. (2):



$\therefore (40 - x) + x + (50 - x) = 75$
 $\Rightarrow x = 15$

80. (None): Let the worker worked for x hours.

$$\therefore \frac{56}{35} \times 40 + (x - 40)$$

$$\times \frac{56}{35} \times \frac{3}{2} = 88$$

$$\Rightarrow \frac{56}{35} \left[40 + \frac{3}{2}x - 60 \right] = 88$$

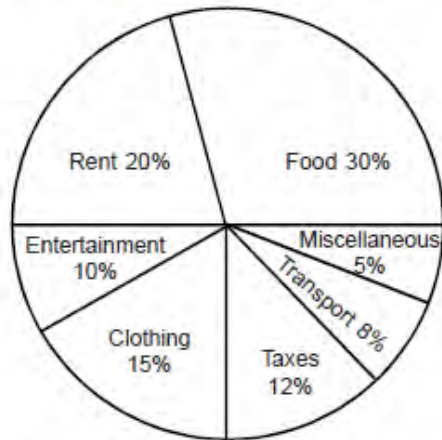
$$\Rightarrow \frac{3}{2}x = \frac{88 \times 35}{56} + 20 = 75$$

$$\Rightarrow x = 50$$

Section III : Data Analysis And Data Sufficiency

Directions (Qs. 81 to 84) :
These questions refer to the following circle graph showing the expenditure distribution of a certain family :

EXPENDITURE DISTRIBUTION OF A CERTAIN FAMILY



81. If the family spends Rs. 6,500 per month, how much are its annual taxes ?

- (1) Rs. 7,800 (2) Rs. 9,360
(3) Rs. 9,800 (4) Rs. 10,080

82. How many degrees should there be in the central angle showing clothing, taxes and transportation combined ?

- (1) 100 (2) 110
(3) 120 (4) 126

83. How much more money per month is spent by the family on food as compared to the rent ?

- (1) Rs. 650 (2) Rs. 700
(3) Rs. 750 (4) Rs. 800

84. If the expenditure budget of the family is raised to Rs. 8,000 per month and distribution on various items remain the same, then the monthly expenses on both, the entertainment and the transport, will be

- (1) Rs. 1,800 (2) Rs. 1,600
(3) Rs. 1,440 (4) Rs. 1,220

Directions (Qs. 85 to 88) : Study the table given below and answer these questions :

INVESTMENTS IN PUBLIC SECTOR
(Rs. crores)

Name of the Enterprise	Investments as on	
	31-3-98	31-3-99
1. Steel Authority of India (SAIL)	5,933	6,305
2. Coal India	4,730	5,541
3. National Thermal Power Commission (NTPC)	3,119	4,520
4. Oil & Natural Gas Commission (ONGC)	2,432	2,860
5. Rural Electrification Corporation (REC)	1,522	1,830
6. National Textile Corporation (NTC)	933	1,050
	18,669	22,108

85. Comparatively, the percentage increase in investment in the year ending 31st March '99, was the least in the case of

- (1) NTC (2) REC
(3) SAIL (4) ONGC

86. The percentage increase in investment was nearly equal in the case of

- (1) Coal India & ONGC
(2) Coal India & SAIL
(3) SAIL & NTC
(4) ONGC & NTPC

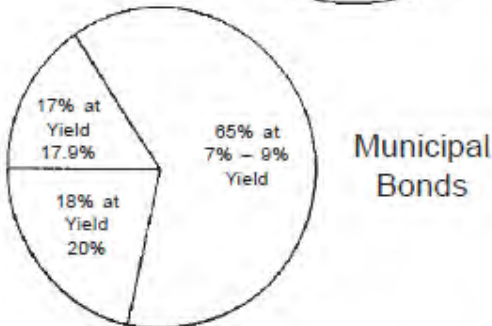
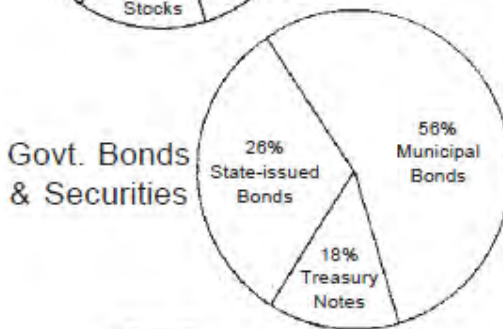
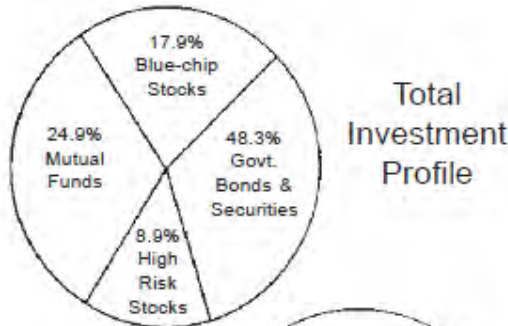
87. The increase in investment in NTPC was more than twice to that in

- (1) NTC (2) Coal India
(3) REC (4) ONGC

88. As compared to the investments for the year ending 31st March, 1998, the total investments in all the six enterprises for the year ending 31st March, 1999 exceeded approximately by

- (1) 10% (2) 15%
(3) 18% (4) 20%

Directions (Qs. 89 to 92) : These questions are based on the following graphs :



**Total Investment Funds
= Rs. 11 crore 5 lakh**

89. According to these graphs, approximately, how much money from the investment portfolio was invested in high-risk stocks ?

- (1) 9,00,000 (2) 10,10,000
(3) 98,000 (4) 6,00,000

90. Approximately, how much money belonging to the investment portfolio was invested in State-issued bonds ?

- (1) 2,87,30,000

(2) 3,39,50,000

(3) 4,50,00,000

(4) None of these

91. Which of the following earned the least amount of money for the investment portfolio ?

- (1) Municipal Bonds
(2) State-issued Bonds
(3) Government Bonds & Securities
(4) Cannot be determined from the given information

92. Which of the following was the greatest ?

- (1) The amount of money invested in Municipal Bonds which yielded between 7% and 9%
(2) The amount of money invested in State-issued Bonds.
(3) The amount of money invested in High Risk Stock
(4) The amount of money invested in Municipal Bonds which yielded over 9%

Directions (Qs. 93 to 96) : Study the following table to answer these questions.

**PLAN-WISE PUBLIC SECTOR
OUTLAYS AND EXPENDITURE
(1974-79 TO 1985-90)**

(in Rs. Crores)

Five-Year Plans	Period	Approved Outlay	Actual Expenditure
Fifth Plan	1974-79	39,303	39,426
Sixth Plan	1980-85	97,500	1,09,292
Seventh Plan	1985-90	1,80,000	—

93. Actual expenditure in the sixth Plan exceeded the outlay by about

- (1) 10% (2) 17%
(3) 23% (4) 30%

94. Sixth Plan outlay exceeded the Fifth Plan outlay by almost

- (1) 50% (2) 100%
(3) 150% (4) 200%

95. In the Fifth Plan, the expenditure exceeded the outlay by

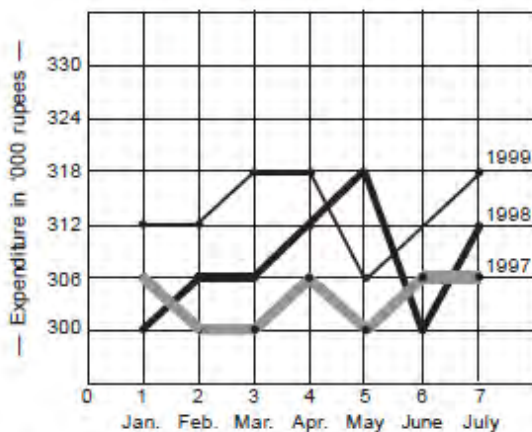
- (1) 1%
- (2) 2%
- (3) Less than 0.5%
- (4) Did not exceed

96. From the given table we can infer that the actual expenditure in the Seventh Plan will exceed the outlay by almost

- (1) 40%
- (2) 60%
- (3) 80%
- (4) Cannot infer

Directions (Qs. 97 to 104) : Study the data presented in the following graph to answer these questions.

MONTHLY EXPENDITURE OF A FIRM FROM JANUARY TO JULY DURING THE YEARS 1993, 1994 & 1995



97. What is the total expenditure during the period under review (7 months) in 1997?

- (1) Rs. 21,07,000
- (2) Rs. 21,96,000
- (3) Rs. 21,54,000
- (4) Rs. 2,12,4000

98. What total expenditure has been made during the year 1997 and 1998 in the period covered in the graph?

- (1) Rs. 42,87,000
- (2) Rs. 2,70,000

(3) Rs. 48,27,000

(4) Rs. 42,78,000

99. What is the average monthly expenditure during the year 1999 covering the period shown in the graph?

(1) Rs. 2,75,000

(2) Rs. 2,70,000

(3) Rs. 3,14,000

(4) Rs. 2,47,000

100. Which month has been the least expensive during 1999?

(1) June

(2) April

(3) May

(4) July

101. The expenditure in April 1999 was higher than that of corresponding period in 1998.

(1) 1.5%

(2) 2%

(3) 2.5%

(4) 0.94%

102. The expenditure in May 1997 was less than that of the corresponding period in 1999.

(1) 3%

(2) 2.5%

(3) 1.5%

(4) 2%

103. The expenditure of May/June 1998 was higher than that of the corresponding period during 1985.

(1) 3%

(2) 3.5%

(3) 2%

(4) Zero

104. Which of the following statements is correct?

(1) In 1997, the expenditure was more in March than in January.

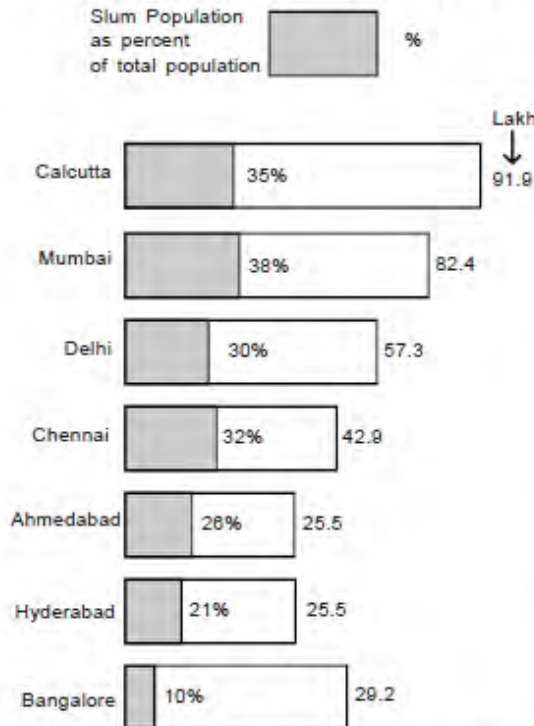
(2) The expenditure in January 1999 was equivalent to the expenditure in July 1998.

(3) In 1999, the expenditure was less than that of 1998.

(4) The total expenditure in January 1997 and 1999 was more than that in April 1997 and 1999.

Directions (Qs. 105 to 112) : Study the following chart to answer these questions.

Slum Population in Metropolis : 1991



105. The total slum population of Calcutta in 1991 was approximately

- (1) 30 lakh (2) 31 lakh
(3) 32 lakh (4) 33 lakh

106. The difference in the slum populations of Bangalore and Hyderabad was

- (1) 4.1 lakh (2) 3.71 lakh
(3) 2.43 lakh (4) 2 lakh

107. The city with the highest slum population was

- (1) Mumbai (2) Calcutta
(3) Delhi (4) Chennai

108. Two cities with nearly equal slum population were

- (1) Ahmedabad & Hyderabad
(2) Delhi & Chennai
(3) Hyderabad & Bangalore
(4) Mumbai & Calcutta

109. The slum population of Delhi was more than 3 times the slum population of

- (1) Hyderabad (2) Ahmedabad
(3) Bangalore (4) Chennai

110. The slum population of all the seven cities nearly equalled the total population of

- (1) Calcutta and Bangalore
(2) Delhi and Chennai
(3) Delhi and Hyderabad
(4) Mumbai and Ahmedabad

111. The ratio of slum population to total population in Calcutta is times the same ratio in Bangalore.

- (1) 3 (2) 3.5 (3) 4 (4) 5

112. In terms of slum population, the second city with the least population was

- (1) Delhi (2) Bangalore
(3) Ahmedabad (4) Hyderabad

Directions (Qs. 113 to 120) : These questions are followed by two statements A and B. Choose (1) if the statement A alone is sufficient to answer the question asked, but the statement B by itself is not sufficient to answer the question. Choose (2) if the statement B alone by itself is sufficient to answer the given question, but statement A alone is not sufficient to answer the question. Choose (3) if both the statements A and B together are sufficient to answer the given question but neither statement by itself is sufficient to answer the question. Choose (4) if the two statements A and B, even when taken together, are not sufficient to answer the question.

113. Is y larger than 1 ?

A : y is greater than 0

B : $y^2 - 4 = 0$

114. Is the integer x divisible by 3 ?

A : The last digit in x is 3

B : $x + 5$ is divisible by 6.

115. How much is Mohan's weekly salary ?

A : Mohan's weekly salary is twice as much as Sohan's weekly salary.

B : Sohan's weekly salary is 40% of the total of Ram's and Mohan's weekly salaries.

116. What is the percentage of defective items produced in a factory ?

A : The total number of defective items produced is 1,234.

B : The ratio of defective items to non-defective is 32 to 5,678.

117. How long will it take to travel from A to B ? It takes 4 hours to travel from A to B and back to A.

A : It takes 25% more time to travel from A to B than it takes to travel from B to A.

B : C is midway between A and B and it takes 2 hours to travel from A to C and back to A.

118. How many square tiles with sides 5 inches long will be needed to cover the rectangular floor of a room ?

A : The floor is 10 feet long.

B : The floor is 5 feet wide.

119. A group of 49 consumers were offered a chance to subscribe to 3 magazines : A, B and C. 38 of the consumers subscribed to atleast one of the magazines. How many of the 49 consumers subscribed to exactly two of the magazines ?

A : 12 of the 49 consumers subscribed to all the three magazines.

B : 20 of the 49 consumers subscribed to magazine A.

120. What is the two-digit number whose first digit is 'a' and the second

digit is 'b' ? The number is greater than 9.

A : The number is a multiple of 51.

B : The sum of the digits 'a' and 'b' is 6.

ANSWERS

81. (2) : Taxes = 12% of Rs. 6500
= Rs. 780 per month
= Rs. 9360 per month

82. (4) : Clothing, taxes and transportation combined are 35%.
Now $100\% = 360^\circ$

$$\Rightarrow 35\% = \frac{360}{100} \times 35 = 126$$

83. (1) : 10% of Rs. 6500
= Rs. 650 per month

84. (3) : 18% of Rs. 8000 = Rs. 1440

85. (3) : Percent increase in investment :

$$\text{For SAIL} = \frac{372}{5933} \times 100 = 6.27\%$$

$$\text{For Coal India} = \frac{811}{4730} \times 100 = 17.15\%$$

$$\text{For NTPC} = \frac{1401}{3119} \times 100 = 44.92\%$$

$$\text{For ONGC} = \frac{428}{2432} \times 100 = 17.60\%$$

$$\text{For REC} = \frac{308}{1522} \times 100 = 20.24\%$$

$$\text{For NTC} = \frac{117}{933} \times 100 = 12.54\%$$

86. (1) **87. (3)**

88. (3) : Investment in 1998-99 increased from 1997-98 by $22108 - 18669 = \text{Rs. } 3439$ crore

$$= \frac{3439}{18669} \times 100 = 18.42\% \approx 18\%$$

112. (4)

113. (3) : $A \Rightarrow y > 0$

$B \Rightarrow y > 2$ ($y = -2$ is ruled out by A)

114. (3) : 23 is not divisible by 3.

If $x + 5$ is divisible by 6, then x is not divisible by 3, e.g. 36 is divisible by 6, but 31 is not divisible by 3.

115. (4) : Mohan = 2 Sohan

Sohan = 40% of (Ram + Mohan)

$$= \frac{2}{5} \text{ of (Ram + Mohan)}$$

$$= \frac{2}{5} \text{ Ram} + \frac{2}{5} \text{ Mohan}$$

$$= \frac{2}{5} \text{ Ram} + \frac{4}{5} \text{ Sohan}$$

$$\Rightarrow \frac{1}{5} \text{ Sohan} = \frac{2}{5} \text{ Ram}$$

$$\Rightarrow \text{Sohan} = 2 \times \text{Ram}$$

$$\therefore \text{Mohan} = 4 \times \text{Ram}$$

116. (2)

117. (1) : $1\frac{7}{9}$ hours from A to B and

$2\frac{2}{9}$ hours from B to A.

118. (3)

119. (4) : 11 consumers did not subscribe to any magazine.

120. (3) : 51 itself is the number.

Section IV : Intelligence & Critical Reasoning

Directions (Qs. 121 to 127) : Read the following statements to answer these questions :

Group Captain Malhotra is choosing the last part of his crew for the spaceship COSMOS, with which he plans to land on the moon. He needs 4 more crew members of whom at least two must be pilots, the others being engineers. The candidates for Pilots are Dalbir, Eric and Farid. The candidates for Engineers are Lal, Monty, Naveen and Paul. Eric will not crew with Lal. Dalbir will not crew with Naveen.

121. If Naveen is chosen, which of the following must be other members of the crew ?

- (1) Farid, Lal and Monty
- (2) Dalbir, Eric and Monty
- (3) Eric, Farid and Monty
- (4) Eric, Farid and Paul

122. If Paul is chosen, which candidates will NOT be chosen to be on the crew ?

(1) Dalbir, Eric and Monty

(2) Dalbir, Eric and Farid

(3) Dalbir, Farid and Lal

(4) Eric, Farid and Lal

123. Given the above statements about the relationships among the potential crew members, which of the following must be true ?

A : If Dalbir is rejected, then Monty must be chosen.

B : If Dalbir is rejected, then Farid must be chosen.

C : If Dalbir is chosen, then Paul must also be chosen.

(1) B only (2) C only

(3) A and B only (4) A and C only

124. If Lal is chosen as an engineer, which of the following could be the other members of the crew ?

A : Dalbir, Farid and Monty

B : Dalbir, Farid and Naveen

C : Dalbir, Farid and Paul

(1) A only (2) B only

(3) C only (4) A and C only

125. Which of the following statements must be true ?

A : If Group Captain Malhotra chooses Lal, then Farid also must be chosen.

B : If Group Captain Malhotra chooses Monty, then Naveen must also be chosen.

C : Lal and Naveen never crew together.

- (1) A only
- (2) A and B only
- (3) A and C only
- (4) B and C only

126. If Paul is chosen to be the part of the COSMOS' crew and Dalbir is not, who must be the other members of the crew ?

- (1) Eric, Farid and Lal
- (2) Eric, Farid and Monty
- (3) Eric, Farid and Naveen
- (4) Farid, Lal and Monty

127. If Eric makes the crew and Farid does not, which of the following statements must be true ?

A : Paul will be a member of the crew.

B : Monty will be a member of the crew.

- (1) Both A and B
- (2) Neither A nor B
- (3) A only
- (4) B only

Directions (Qs. 128 to 132) : There is a blank space in each of these questions in which only one of the four alternatives given under each question satisfies the same relationship as is found between the two terms on the other side of the sign :: . Find the correct alternative to fill in the blank space.

128. Telephone : Ring ::

- (1) Door : knock
- (2) Gate : open
- (3) Door : wood
- (4) Lock : key

129. Deterioration : Rust ::

- (1) Recession : Inefficiency
- (2) Depression : Unemployment
- (3) Promulgation : Legislation
- (4) Iron : Water

130. Dinosaur : Dragon ::

- (1) Evolution : Revelation
- (2) Gorilla : Soldier
- (3) Snow : Ice
- (4) Primeval : Medieval

131. Condone : Offence ::

- (1) Overlook : Aberration
- (2) Error : Omission
- (3) Mitigate : Penitence
- (4) Conviction : Criminal

132. Shoe : Leather ::

- (1) Bus : Conductor
- (2) Train : Wagon
- (3) Highway : Asphalt
- (4) Medicine : Doctor

133. Find the odd one out :

- (1) Grams
- (2) Litres
- (3) Tonnes
- (4) Quintals

134. Find the odd one out :

- (1) 25631
- (2) 52163
- (3) 33442
- (4) 34424

135. Complete the series :

- 10, 18, 34, ??, 130, 258
- (1) 32
 - (2) 60
 - (3) 68
 - (4) 66

136. Find out the right letters for the question marks :

A M B N E I F J C O D P G K ? ?

- (1) M N
- (2) L M
- (3) I E
- (4) G H

Directions (Qs. 137 to 141) : Mehta is the Director of investments for a mutual fund. He believes that blue-chip stocks and government securities will generally not do as well as corporate bonds in

the coming year, but government regulations require that at least one-third of the fund's capital be in blue-chip stocks and another third in government securities.

137. Under current regulations, what seems to be the best way for Mehta to invest in the mutual fund ?

- (1) Two-thirds government securities, one-third blue chip stocks.
- (2) Two-thirds government securities, one-third corporate bonds.
- (3) One-third government securities, two-thirds corporate bonds.
- (4) One-third each government securities, blue-chip stocks and corporate bonds.

138. If the mutual fund has Rs. 60 crore in assets, then what is the maximum that Mehta could invest in blue-chip stocks ?

- (1) 20 crore
- (2) 30 crore
- (3) 40 crore
- (4) 50 crore

139. If the government regulations are changed to require only one-quarter whereas one-third was previously required, Mehta will probably

- (1) Increase the fund's holdings of government securities.
- (2) Increase the fund's holdings of corporate bonds.
- (3) Increase the fund's holdings of blue-chip stocks.
- (4) Hold more cash.

140. If the return on government securities suddenly goes up by five percentage points, Mehta will probably

- (1) Sell blue-chip stocks to buy government securities.
- (2) Sell corporate bonds to buy government securities.
- (3) Sell both corporate bonds and blue-chip stocks to buy government securities
- (4) His action cannot be predicted

141. In the middle of the year, the fund is invested equally in corporate bonds, blue-chip stocks and government securities. Due to some rumours about the credibility of the fund, investors have started redemption and withdrawals resulting in cash shortage for the fund. Mehta might do any one of the following EXCEPT

- (1) Sell two times more corporate bonds than blue-chip stocks
- (2) Sell only government securities and blue-chip stocks.
- (3) Sell only corporate bonds and blue-chip stocks.
- (4) Sell only government securities and corporate bonds.

Directions (Qs. 142 to 144) : Farmer Batuk Singh has a larger square field divided into nine smaller squares, all equal, arranged in three rows of three fields each. One side of the field runs exactly east-west. The middle square must be planted with rice because it is wet. The wheat and barley should be contiguous so that they can be harvested all at once by the mechanical harvester. Two of the fields should be planted with soyabeans. The north-westernmost field should be planted with peanuts and the southern third of the field is suitable only for vegetables.

Questions 142 to 144 refer to the following squares :

- (1) The square immediately north of the rice.
- (2) The square immediately east of the rice.
- (3) The square immediately west of the rice.
- (4) The square immediately north-east of the rice.

142. Which square cannot be planted with soyabeans ?

143. Which square cannot be planted with wheat ?

144. If Batuk Singh decides to plant the wheat next to the peanuts, in which square will the barley be ?

Directions (Qs. 145 to 148) : In a defence message, 'GET AWAY, FIRE BACK-WARDS, MOVE SLOW' is coded as 'BEN CDCI, QHOEPCTL DCOXU, ZMWE VFMD'

Based on this coding scheme, spot the codes for the words given in Questions 145 to 148 :

145. GREAT

- (1) BOENC (2) BOEQN
(3) BOECN (4) BOEHC

146. REWARD

- (1) OEDNXE (2) OTDCOX
(3) OEDCOX (4) OEDCOU

147. DEADLY

- (1) XECXEI (2) XENXFI
(3) XECXFI (4) XECXFI

148. OVER

- (1) MWOE (2) MWZO
(3) MWEO (4) MWED

Directions (Qs. 149 to 152) : A goldsmith has five gold rings, each having a different weight. They are labelled as D, E, F, G and H. Their peculiarities are given in the following 5 statements :

Statement 1 : Ring D weighs twice as much as ring E.

Statement 2 : Ring E weighs four and a half times as much as ring F.

Statement 3 : Ring F weighs half as much as ring G.

Statement 4 : Ring G weighs half as much as ring H.

Statement 5 : Ring H weighs less than ring D but more than ring F.

149. If these rings are sold according to their weights, which ring will fetch the highest value in rupees ?

- (1) D (2) G (3) F (4) H

150. Ring H is heavier to which of the following two rings ?

- (1) GE (2) GF (3) DF (4) DE

151. Which of the following is the lightest in weight ?

- (1) D (2) E (3) F (4) G

152. Which of the following represents the descending order of the weights of the rings ?

- (1) D, E, H, G and F
(2) F, D, G, E and H
(3) H, F, G, D and E
(4) E, G, H, D and F

Directions (Qs. 153 to 159) :

A management institute organises six once-a-month lecture series for young entrepreneurs as per the following schedule, with no dates conflicting :

Marketing	—	August through January
Management	—	April through October
Business Law	—	January through September
Financial Management	—	March through June
Accounting	—	October through April
Personnel Management	—	October through December

153. During which month are the fewest lectures given ?

- (1) January (2) February
(3) June (4) September

154. Which is the largest number of lectures that can be attended in a single month ?

- (1) 7 (2) 6
(3) 5 (4) 4

155. Which two series taken together fill the year without overlap ?

- (1) Marketing and Financial Management
- (2) Personnel Management and Economics
- (3) Business Law and Personnel Management
- (4) Business Law and Accounting

156. During how many months of the year must a student attend to hear all the lectures on Marketing, Economics and Financial Management ?

- (1) 11 (2) 10 (3) 9 (4) 8

157. How many lecture series last more than 6 months ?

- (1) 1 (2) 2 (3) 3 (4) 4

158. How many different series can be attended in September, October and November ?

- (1) 2 (2) 3 (3) 4 (4) 5

159. How many different lectures can be attended in January, February and March ?

- (1) 12 (2) 10 (3) 8 (4) 6

160. If SMOOTH is coded as 135579, ROUGH as 975531 and HARD as 9498, then SOFT will be coded as

- (1) 1527 (2) 1347
- (3) 4998 (4) 8949

ANSWERS

121. (3) : Since Naveen is chosen, Dalbir and Paul cannot be chosen. Therefore, Pilots chosen are *Eric and Farid*. Since Lal cannot be chosen because of Eric, therefore, Monty should be chosen as the 2nd Engineer.

122. (4) : Eric and Lal cannot be chosen together.

123. (3) : If Dalbir is rejected, either (Navin or Paul) and Monty

must be chosen. Also Farid must be chosen.

If Dalbir is chosen, then Farid, Lal and Monty can be chosen. \therefore A and B are true and C is not true.

124. (4) : If Lal is chosen, Eric cannot be chosen. Therefore, Dalbir and Farid must be chosen and so Naveen cannot be chosen. \therefore B is not true.

125. (3) : If Lal is chosen, Eric cannot be chosen and so Farid will definitely be chosen. Therefore, A is true.

If Monty is chosen, then it is not necessary that Naveen must be chosen. Dalbir, Eric and Farid can be chosen with Monty. Therefore, B is not true. C is also true because one out of Dalbir and Eric will definitely be chosen. And so, if Dalbir is chosen, Naveen cannot be chosen and if Eric is chosen, Lal cannot be chosen.

126. (2) : If Paul is chosen and Dalbir is not chosen, Naveen cannot be chosen. (3) is ruled out. Because, Dalbir is chosen \Rightarrow Eric and Farid will definitely be chosen. \Rightarrow Lal cannot be chosen. \Rightarrow (1) and (4) are ruled out.

127. (1) : In this case, Dalbir and Eric will definitely be chosen \Rightarrow Lal and Navin cannot be chosen.

128. (1) **129.** (2) **130.** (3) **131.** (1)
132. (3) **133.** (2)

134. (3) : $2 + 5 + 6 + 3 + 1 = 17,$
 $5 + 2 + 1 + 6 + 3 = 17$
 $3 + 4 + 4 + 2 + 4 = 17,$
 $3 + 3 + 4 + 4 + 2 = 16$

- 183.** What does IRA stand for ?
(1) Irish Republican Army
(2) Irish Republican Association
(3) Independent Republic's Army
(4) Inshue Republican Army
- 184.** Slobodan Milosevic, the Yugoslav leader who was forced to step down in October 2000, was the President of which Republic ?
(1) Croatia (2) Bosnia
(3) Slovenia (4) Serbia
- 185.** On October 1, 2000 the Government announced the formation of a new body with the corporatisation of the Department of Telecom Operations (DTO) and Department of Telecom Services (DTS). What is the name of this new organisation ?
(1) Videsh Sanchar Nigam Limited
(2) Bharat Sanchar Nigam Limited
(3) Mahanagar Telephones Nigam Limited
(4) Bharat Telephones Nigam Limited
- 186.** Which of the following is NOT a member of SAARC ?
(1) Pakistan (2) Nepal
(3) Bangladesh (4) Afghanistan
- 187.** The Republican Party of the United States is also sometimes referred to as the GOP. What does GOP stand for ?
(1) Grand Old Party
(2) Government Opposition Party
(3) Grant's Old Party
(4) Great Oregon Party
- 188.** Who is credited with the idea of linking each page of information on the net to another that went onto create the world wide web (www) ?
(1) Tim Berners-Lee (2) Bill Gates
(3) Al Gore (4) Steve Jobs
- 189.** Who replaced Ram Prakash Gupta as the Chief Minister of UP in the year 2000 ?
(1) Rajnath Singh (2) Kalraj Mishra
(3) Kalyan Singh (4) Amar Singh

- 190.** Who is the director of the film *Mission Kashmir* ?
(1) Ram Gopal Verma
(2) Vidhu Vinod Chopra
(3) E. Niwas
(4) Subhash Ghai
- 191.** The recent Supreme Court judgement on the Sardar Sarovar Dam project on the Narmada river has allowed construction of the dam upto what height ?
(1) 70 metres (2) 90 metres
(3) 110 metres (4) 138.6 metres
- 192.** Name the former Congress Party president who passed away in the year 2000.
(1) Sitaram Kesri (2) Rajesh Pilot
(3) Rangarajan Kumaramangalam
(4) Ram Niwas Mirdha
- 193.** Which State did the Americans buy from the Russians in 1867 ?
(1) Washington (2) Hawaii
(3) Alaska (4) California
- 194.** Arun Bajoria, a Calcutta-based businessman, tried to take over which high profile company in the year 2000 ?
(1) Bombay Dyeing (2) Telco
(3) Infosys (4) Wipro
- 195.** Name the film directed by Manoj Shyamalan that was nominated for the Oscars in 2000.
(1) Elizabeth (2) The Sixth Sense
(3) Bombay Boys (4) The Cell
- 196.** How many squares are there on a standard chess board ?
(1) 48 (2) 64 (3) 100 (4) 96
- 197.** How many times has Atal Bihari Vajpayee been sworn in as the Prime Minister of India ?
(1) One (2) Two (3) Three (4) Four
- 198.** What does ISP stand for ?
(1) International Service Provider
(2) Indian Service Provider
(3) Internet Service Provider
(4) Internet Start-up Provider

135. (4) : The sequence in the given series is + 8, + 16, + 32, + 64, + 128

136. (None) : Consider four groups of letters : (A B C D), (E F G H), (I J K L) and (M N O P) : In each group, there is one letter between 1st and 2nd letters as well as 3rd and 4th letters. Also there are five letters between 2nd and 3rd letters. Therefore, last two letters must be H L.

137. (4) **138.** (1) **139.** (2) **140.** (4)

141. (1)

142. (4)

F1	Peanuts	Wheat	Barley
F2		Rice	
F3	Soyabeans		Vegetables

143. (3) **144.** (4)

145. (3) : G → B, R → O, E → E, A → C
T → N

146. (3) : R → O, E → E, W → D, A → C,
R → O, D → X

147. (4) : D → X, E → E, A → C, D → X,
L → F, Y → I

148. (3) : O → M, V → W, E → E,
R → O

149. (1) : D = 2E ⇒ E < D

$$E = 4 \frac{1}{2} F$$

$$F = \frac{1}{2} G \Rightarrow G > F$$

$$G = \frac{1}{2} H \Rightarrow H > G$$

$$H < D, H > F$$

$$\therefore F < G < H < D (E < D)$$

150. (2)

151. (3) **152.** (1)

153. (2)

J	F	M	A	M	J	J	A	S	O	N	D
MM							MM	MM	MM	MM	MM
BL	BL	BL	BL	BL	BL	BL	BL	BL			
A	A	A	A						A	A	A
		FM	FM	FM	FM						
			E	E	E	E	E	E			
									PM	PM	PM

154. (4) **155.** (3) **156.** (1) **157.** (3)

158. (4) **159.** (3)

160. (1) : S → 1, O → 5, T → 7

Section V : Indian & Global Environment

161. The present Pope went on a historic tour of which of the following regions in March 2000 ?

- (1) Russia (2) Greece
(3) Israel and Jordan (4) Turkey

162. Recently Microsoft tied up with which of the following Indian companies to work towards the next generation software packages ?

- (1) Infosys (2) Wipro
(3) Pentasoft (4) Mind Tree

163. Who was the Man of the Match in the finals of the recently concluded ICC Knock-Out tournament held in Kenya ?

- (1) Zaheer Khan (2) Roger Twose

- (3) Saurav Ganguly
(4) Chris Cairns

164. Who was the Republican candidate for the recently concluded US Presidential elections ?

- (1) George W. Bush (2) Al Gore
(3) Ralph Nader (4) Dick Cheney

165. For which of the following products advertisements does Hrithik Roshan appear ?

- (1) Pepsi (2) Coca Cola
(3) MRF (4) Maruti

166. Name the small car launched by Maruti in September 2000.

- (1) Alfa (2) Alto
(3) Matiz (4) Golf

167. Bill Clinton was the fourth US President to visit India. Who was the last US President to visit India before Clinton ?

- (1) D. Eisenhower (2) John F. Kennedy
(3) Richard Nixon (4) Jimmy Carter

168. Who is the Union Minister for Power in the present NDA government ?

- (1) Suresh Prabhu
(2) Ram Naik
(3) Pramod Mahajan
(4) Ram Vilas Paswan

169. At present, which of the following is NOT a member of the OPEC ?

- (1) Saudi Arabia (2) Kuwait
(3) Venezuela (4) Iraq

170. Which of the following private banks was taken over by the HDFC last year ?

- (1) Times Bank (2) Indian Bank
(3) Commercial Bank of India
(4) Federal Bank

171. When was the last time that India won the Gold medal in Hockey at the Olympics ?

- (1) 1992 (2) 1980 (3) 1964 (4) 1972

172. Who is the President of Pakistan ?

- (1) Pervez Musharraf
(2) Rafiq Tarar
(3) Abdus Sattar
(4) Farooq Leghari

173. Name the director who is working on a film on the life and times of Nelson Mandela ?

- (1) Shekhar Kapoor
(2) Steven Spielberg
(3) John Wu (4) Martin Scorsese

174. What key button is found on the top left corner of a standard computer keyboard ?

- (1) Tab (2) Caps Lock
(3) Delete (4) Escape

175. Who collaborated with the rock group U2 to write the lyrics for the song *The Ground Beneath Her Feet* ?

- (1) Vikram Seth
(2) Arundhati Roy
(3) Salman Rushdie
(4) Shashi Tharoor

176. Which Indian boxer narrowly missed a medal at the recently concluded Sydney Olympics ?

- (1) Gurcharan Singh
(2) N. G. Dingko Singh
(3) Shakti Singh
(4) M. P. Singh

177. Name the State carved out of Madhya Pradesh after the Parliament passed the legislation earlier in the year 2000.

- (1) Uttaranchal (2) Jharkhand
(3) Vidarbha (4) Chhattisgarh

178. The control of which city was the cause of the breakdown of talks between Israel and the Palestinians in October 2000 ?

- (1) Nazareth (2) Gaza
(3) Amman (4) Jerusalem

179. To which country did the nuclear submarine *Kursk* belong which sank recently killing all the sailors on board ?

- (1) Russia (2) Finland
(3) Sweden (4) Norway

180. How many overs were allowed *per side* in the inaugural 1975 Cricket World Cup ?

- (1) 50 (2) 60
(3) 25 (4) 40

181. To which State does Dr. Rajkumar, the film actor who was kidnapped by Veerappan, belong ?

- (1) Tamil Nadu (2) Karnataka
(3) Kerala
(4) Andhra Pradesh

182. Who was awarded the Dada Saheb Phalke Award in the year 2000 ?

- (1) Shyam Benegal
(2) Mrinal Sen
(3) Hrishikesh Mukherjee
(4) Subhash Ghai

167. Bill Clinton was the fourth US President to visit India. Who was the last US President to visit India before Clinton ?

- (1) D. Eisenhower (2) John F. Kennedy
(3) Richard Nixon (4) Jimmy Carter

168. Who is the Union Minister for Power in the present NDA government ?

- (1) Suresh Prabhu
(2) Ram Naik
(3) Pramod Mahajan
(4) Ram Vilas Paswan

169. At present, which of the following is NOT a member of the OPEC ?

- (1) Saudi Arabia (2) Kuwait
(3) Venezuela (4) Iraq

170. Which of the following private banks was taken over by the HDFC last year ?

- (1) Times Bank (2) Indian Bank
(3) Commercial Bank of India
(4) Federal Bank

171. When was the last time that India won the Gold medal in Hockey at the Olympics ?

- (1) 1992 (2) 1980 (3) 1964 (4) 1972

172. Who is the President of Pakistan ?

- (1) Pervez Musharraf
(2) Rafiq Tarar
(3) Abdus Sattar
(4) Farooq Leghari

173. Name the director who is working on a film on the life and times of Nelson Mandela ?

- (1) Shekhar Kapoor
(2) Steven Spielberg
(3) John Wu (4) Martin Scorsese

174. What key button is found on the top left corner of a standard computer keyboard ?

- (1) Tab (2) Caps Lock
(3) Delete (4) Escape

175. Who collaborated with the rock group U2 to write the lyrics for the song *The Ground Beneath Her Feet* ?

- (1) Vikram Seth
(2) Arundhati Roy
(3) Salman Rushdie
(4) Shashi Tharoor

176. Which Indian boxer narrowly missed a medal at the recently concluded Sydney Olympics ?

- (1) Gurcharan Singh
(2) N. G. Dingko Singh
(3) Shakti Singh
(4) M. P. Singh

177. Name the State carved out of Madhya Pradesh after the Parliament passed the legislation earlier in the year 2000.

- (1) Uttaranchal (2) Jharkhand
(3) Vidarbha (4) Chhattisgarh

178. The control of which city was the cause of the breakdown of talks between Israel and the Palestinians in October 2000 ?

- (1) Nazareth (2) Gaza
(3) Amman (4) Jerusalem

179. To which country did the nuclear submarine *Kursk* belong which sank recently killing all the sailors on board ?

- (1) Russia (2) Finland
(3) Sweden (4) Norway

180. How many overs were allowed *per side* in the inaugural 1975 Cricket World Cup ?

- (1) 50 (2) 60
(3) 25 (4) 40

181. To which State does Dr. Rajkumar, the film actor who was kidnapped by Veerappan, belong ?

- (1) Tamil Nadu (2) Karnataka
(3) Kerala
(4) Andhra Pradesh

182. Who was awarded the Dada Saheb Phalke Award in the year 2000 ?

- (1) Shyam Benegal
(2) Mrinal Sen
(3) Hrishikesh Mukherjee
(4) Subhash Ghai

199. A killer super cyclone destroyed large parts of which eastern State of India in the year 1999 ?

- (1) Assam (2) West Bengal
(3) Orissa (4) Tamil Nadu

200. Name the web site which broke the Cricket match-fixing story earlier this year ?

- (1) bazee.com (2) tehelka.com
(3) tazaakhabar.com
(4) goforcricket.com

ANSWERS

161. (3) **162.** (1)

163. (4) : New Zealand won the 11-Nation ICC Knock-out Trophy defeating India by four wickets in Nairobi on October 15, 2000.

164. (1) **165.** (2) **166.** (2)

167. (4) : Other three Presidents to visit India were Dwight D. Eisenhower (December 1959), Richard M. Nixon (July 1969) and Jimmy Carter (January 1978).

168. (1)

169. () : Organisation of Petroleum Exporting Countries was formed on November 14, 1960 to control production and pricing of crude oil. Its headquarters are at Vienna, Austria.

170. (1)

171. (2) : 1980 Olympics were held in Moscow. India won Gold medals in 1928, 1932, 1936, 1948, 1952, 1956, 1964 & 1980.

172. (2) **173.** (1) **174.** (4) **175.** (3)

176. (1)

177. (4) : Chhattisgarh became India's 26th State on November 1, 2000 with its capital at Raipur.

High Court of Chhattisgarh is at Bilaspur. It has 16 districts, 11 Lok Sabha seats, 5 Rajya Sabha seats, 90 Vidhan Sabha seats.

178. (4)

179. (1) : This submarine met with an accident on August 12, 2000, during military exercises and sank in the Barents Sea about 180 km North-East of Murmansk (Arctic Region).

180. (2)

181. (2)

182. (3) : Hrishikesh Mukherjee pioneered the genre of light-hearted socially relevant cinema with films like *Chupke Chupke*, *Gol Maal*, *Khubsoorat* and serious films like *Anand*, *Anuradha*, *Anupama*, *Namak Haram*, *Abhiman* etc. He was selected for Dada Saheb Phalke Award for 1999.

183. (1)

184. (4)

185. (2)

186. (4) : South Asian Association for Regional Cooperation (SAARC) has seven members—Sri Lanka, Bhutan, Maldives, India, Pakistan, Nepal and Bangladesh.

187. (1) **188.** (1) **189.** (1) **190.** (2)

191. (2) : Supreme Court gave the nod on October 18, 2000 for the construction of the controversial dam on the Narmada river immediately upto a height of 90 metres and thereafter upto 138 metres in stages subject to the proper sanction from the authorities concerned.

192. (1) : Sitaram Kesri died at the age of 84. He was elected party president in 1997.

193. (3) **194.** (1) **195.** (2) **196.** (2)

197. (3) **198.** (3) **199.** (3) **200.** (2)

GIM BBA

Sample Paper 2 with Q & A



Disclaimer: This content is not created or owned by Info Edge (India) Limited

Source: <http://gim.gitam.edu/admissions/sample-papers>

Syllabus

Structure of GOT – UG & PG Test is as given below

Section No	Section Name	GOT-UG	GOT-PG
1	English Language	10	30
2	Quantitative	15	30
3	Reasoning and Intelligence	15	20
4	General Knowledge	10	-
5	Data Interpretation	-	20

NOTE:

- a. a. The total time for answering 50 questions is 60 minutes for GOT-UG Test . GOT PG candidates are required to answer 100 questions in 90 minutes.
- b. b. GOT-PG is similar to MAT conducted by AIMA. The candidate may prepare for the exam using any MAT Preparatory book.
- c. c. GOT-UG test is similar to UGAT conducted by AIMA. The candidate may prepare for the exam using any preparatory books on UGAT that is available in leading Book shops.

Section – 1

1. Which of the following correctly constitutes the three organs of the government?

- (a) Executive, democracy and judiciary (b) Executive, legislature and judiciary
(c) Executive, bureaucracy and judiciary (d) Legislature, bureaucracy and democracy

2. Which of the following sources yields the maximum revenue to the Union Government?

- (a) Income tax (b) Property tax (c) Excise duty (d) Customs duty

3. April 22 is observed every year as ____.

- (a) Earth Day (b) World Environment Day
(c) World Health Day (d) World Haemophilia Day

4. Who is leading the LTTE delegation for the peace process with Sri Lanka?

- (a) Vaiko (b) V. Prabhakaran (c) G. L. Peris (d) Anton Balasingham

5. Who was the first UN Secretary General?

- (a) Trygve Lie (b) Dag Hammarskjold
(c) U. Thant (d) Dr Boutros Boutros Ghali

6. The island of Perejil was recently in dispute between ____.

- (a) Italy and Morocco (b) Spain and Morocco
(c) Ghana and Morocco (d) Spain and Ghana

7. NASDAQ is an acronym for

- (a) The National Association of Securities Dealers Automated Quotations.
(b) The National Association of Securities and Dealers Automatic Quotations.
(c) The National Association of Associated Securities and Dealers Quotations.
(d) The National Association of Securities Dealers and Accepted Quotations.

8. Which among the following countries does not have veto power in the UN Security Council?

- (a) France (b) England (c) Germany (d) Russia

9. India is not the member of which of the following organizations?

- (a) NAM (b) SAARC (c) ASEAN (d) Commonwealth

10. Where is the headquarters of Organisation of Petroleum Exporting Countries (OPEC) situated?

- (a) Vienna (b) New York (c) Abu Dhabi (d) Kuwait City

11. Deodhar Trophy, Rohinton Baria Trophy and Sheesh Mahal Trophy are associated with ____.

- (a) football (b) cricket (c) hockey (d) badminton

12. Who is the winner of the Vyas Samman for the year 2002?

- (a) Govinda Chandra Pandey (b) Ram Moorti Tripathi
(c) Dr Kailash Vajpayee (d) Kamleshwar

13. Which of the following represents the name of the mascot of the World Cup Cricket that took place in March 2003?

- (a) Dazzler (b) Panda (c) Rhinto (d) Pincho

14. Uber Cup is associated with which of the following games.

- (a) Hockey (b) Football (c) Table Tennis (d) Badminton

15. With which of the following Articles of the Constitution would you associate the establishment of panchayats?

- (a) Article 36 (b) Article 40 (c) Article 52 (d) Article 61

16. Approximately what percentage of the total GDP is contributed by the agriculture sector of India?

- (a) 15 (b) 20 (c) 25 (d) 30

17. Which of the following is a pharmaceutical company?

- (a) TAG Heuer (b) Aventis (c) Cartier (d) Omega

18. 'Kananaskis' was the venue of the G-8 Summit that took place in 2002. This place is located in which of the following countries?

- (a) Germany (b) Italy (c) Canada (d) Australia

19. Which of the following represents the expansion of 'T' in C-DOT?

- (a) Teleservices (b) Telecom
(c) Telecommunications (d) Telematics

20. Which among the following represents the number of member countries of the Commonwealth?

- (a) 36 (b) 42 (c) 54 (d) 62

21. 'El Nino' is a term you would associate with ____.

- (a) astrology (b) meteorology (c) computers (d) psychology

22. Who among the following is the chief executive officer (CEO) of world's largest software company Microsoft?

- (a) Paul Allen (b) Bill Gates (c) John Sidgmore (d) Steve Balmer

23. Which of the following personalities would you associate with committee on taxes?

- (a) Y. V. Reddy (b) Vijay Kelkar (c) N. K. Singh (d) M. S. Ahluwalia

24. Who is regarded as 'The Father of Economics'?

- (a) J. M. Keynes (b) J. K. Galbraith (c) Vernon Smith (d) Adam Smith

25. Who was appointed as the chairman of the 12th Finance Commission, recently?

- (a) Dr Rakesh Mohan (b) Prof S. D. Tendulkar
(c) Dr C. Rangarajan (d) V. Kamesam

26. According to a recent report, the most competitive economy of the world is ____.

- (a) Finland (b) USA (c) Singapore (d) Hong Kong

27. The disinvestment target of Government of India for 2002-03 is ____.

- (a) Rs. 8,000 crore (b) Rs. 10,000 crore (c) Rs. 12,000 crore (d) Rs. 14,000 crore

28. The first person to walk in space is ____.

- (a) Neil Armstrong (b) A. A. Leonov (c) Yuri Gagarin (d) Edwin Aldrin

29. By sex ratio we mean

- (a) The number of females per 1,000 males.
(b) The number of males in the population per 1,000 female populations.
(c) The number of married females in the population per 1,000 male populations.

(d) The number of married males in the population per 1,000 female populations.

30. Match the columns:

State Capital

- | | |
|------------------|-------------|
| (A) Uttaranchal | 1. Ranchi |
| (B) Chhattisgarh | 2. Dispur |
| (C) Jharkhand | 3. Dehradun |
| (D) Assam | 4. Raipur |

(a) A - 3, B - 4, C - 1, D - 2

(b) A - 4, B - 3, C - 1, D - 2

(c) A - 3, B - 4, C - 2, D - 1

(d) A - 4, B - 3, C - 2, D - 1

31. Who among the following cannot be impeached?

- (a) The President (b) The Vice President (c) The Chief Justice (d) The Governor

32. The number of members nominated by the President in the Rajya Sabha is ____.

- (a) two (b) eight (c) ten (d) twelve

33. Who among the following do not participate in the election for the President?

- (a) The elected members of the Lok Sabha
(b) The elected members of the Rajya Sabha
(c) The elected members of the Legislative Assemblies of the states
(d) The nominated members of the Rajya Sabha, Lok Sabha and state legislatures

34. Which of the following representative bodies cannot be dissolved?

- (a) Lok Sabha (b) Rajya Sabha
(c) Legislative Assembly (d) State Legislative Council

35. Which of the following is the true index of economic growth?

- (a) An increase in the per capita income at constant prices.
(b) An increase in the national income at current prices.
(c) An increase in the gross domestic product at constant prices.
(d) An increase in the gross domestic product at current prices.

36. World Human Rights Day is observed every year on ____.

- (a) December 1 (b) December 8 (c) December 10 (d) December 16

37. What effect does an indirect tax have on a commodity?

- (a) Increases its price (b) Reduces its price

(c) Increases its production (d) keeps the price constant

38. The largest read daily in India is ____.

- (a) The Times of India (b) The Hindustan Times
(c) Amar Ujala (d) Dainik Bhaskar

39. Which constitutional amendment is called the ‘Mini Constitution’?

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

40. Which organization celebrated 150 years of its establishment in 2002?

- (a) Post and Telegraph (b) Indian Railways
(c) Airport Authority of India (d) VSNL

SECTION – 2

Direction for questions 41 to 45: Read the passage, and answer the questions following

Not only mathematics is dependent on us and our thoughts, but in another sense, we and the whole universe of existing things are dependent on mathematics. The apprehension of this purely ideal character is indispensable if we are to understand rightly the place of mathematics as one among the arts. It was formerly supposed that pure reason could decide in some respects as to the nature of the actual world: geometry, at least, was thought to deal with the space in which we live. But we now know that pure mathematics can never pronounce upon the questions of actual Existence: the world of reason, in a sense, controls the world of facts, but it is not at any point creative of fact and in the application of its results to the world in time and space, its certainty and precision are lost among approximations and working hypotheses. The objects considered by mathematicians have, in the past, been mainly of a kind suggested by phenomena; but from such restrictions, the abstract imagination should be wholly free. A reciprocal liberty must be accorded; reason cannot dictate to the world of facts, but the fact cannot restrict reason’s privilege of dealing with whatever objects its love of beauty may cause to seem worthy of consideration. Here, as elsewhere, we build up our ideals out of the fragments to be found in the world; and in the end, it is hard to say whether the result is a creation or a discovery.

41. With which of the following would the author agree?

- I. Mankind relies on mathematics for its very existence.
II. Geometry was believed to deal with space in which we live.
III. The world of reason has no control over the world of fact.

- (a) Only I (b) I and III (c) Only III (d) I and II

42. What does ‘indispensable’ mean?

- (a) Cannot be cured (b) Cannot be curtailed
(c) Cannot be evaded (d) Cannot bear it

43. When the results of pure mathematics are applied to the universe of existing things,

- (a) its findings no longer have complete certainty and preciseness.
(b) mathematics ceases to be a science.
(c) the abstract imagination of the mathematicians is free of restrictions.
(d) the nature of the actual world stands revealed.

44. According to Russell, 'a reciprocal liberty' must be obtained between

- (a) mathematics and applied science.
(b) reason and facts.
(c) mathematical objects and objects created by abstract imagination.
(d) the study of pure mathematics and an application of its results.

45. The end-product of mathematics

- (a) is a statement of what was previously unknown.
(b) is a creation of what did not exist earlier.
(c) is a discovery of previously unknown object.
(d) could possibly be either a creation or a discovery.

Direction for questions 46 to 50:

Read the passage, and answer the questions following it.

One of the greatest public speaking failures of my career took place last summer at Valparaiso University, Indiana where I addressed a convention of editors of college newspapers. I said many screamingly funny things but the applause was dismal at the end. During the evening, I asked one of my hosts in what way I had offended the audience. He replied that they had hoped I would moralize. They had hired me as a moralist. So now when I speak to students, I do moralize. I tell them not to take more than they need, not to be greedy. I tell them not to kill, even in self defence. I tell them not to pollute water or the atmosphere. I tell them not to raid the public treasury. I tell them not to commit war crimes or to help others to commit war crimes. These morals go over very well. They are of course echoes of what the young say to themselves. I had a friend from Schenectady visited me recently, and he asked me this, "Why are fewer and fewer young Americans going into science each year?" I told him that the young were impressed by the war crimes trials at Nuremberg. They were afraid that careers in science could all too easily lead to the commission of war crimes. They don't want to work on the development of new weapons. They don't want to make discoveries which will lead to improved weapons. They don't want to work for corporations that pollute water or atmosphere or raid the public treasury. So they go into other fields. They become physicists who are so virtuous that they don't go into physics at all. At the University of Michigan, at Ann Arbor, the students have been raising hell about the university doing secret government work. I go to talk with some of the students about the protests that had been made against the recruiters of Dow Chemicals, manufacturers of napalm among other things. I offered the opinion that an attack on a Dow recruiter was about as significant as an attack on the doorman or theatre usher. I didn't think the

recruiter stood for anything. I called attention to the fact that during the Dow protest at Harvard a couple of years back, the actual inventor of napalm was able to circulate through the crowd of protestors unmolested. I didn't find the fact that he was unmolested reprehensible. I saw it as a moral curiosity. Though I did not mean to suggest to the students at Ann Arbor that the inventor of napalm should have been given one hell of a time.

46. In this address at Valparaiso University, the author

- (a) became the greatest public speaker of the summer.
- (b) made the audience laugh a lot by screaming in a funny way.
- (c) was dismayed by the audience at the end.
- (d) felt that he did make a significant impression on the audience.

47. Moralists are

- (a) young people who speak to themselves about water and atmospheric pollution.
- (b) not fond of jokes made of sacrosanct things.
- (c) opposed to taking up science as a career.
- (d) concerned about hiring working to raid the public treasury.

48. The author's perception is that young people

- (a) like to hear lectures on morals.
- (b) were so impressed by the Nuremberg trials that they gave up physics.
- (c) would have been scientists but for the pollution created by science.
- (d) do not like to kill even in self-defence.

49. The author regarded the inventor of napalm as

- (a) morally reprehensible.
- (b) someone who should have been attacked but was not.
- (c) a person who was attacked by Harvard students.
- (d) a moral curiosity.

50. It is implied from the author's comments that the present-day students

- (a) do not care much for scientific discoveries.
- (b) prefer to be told what is right or wrong.
- (c) lack a sense of discipline.
- (d) lack a sense of humour.

Direction for questions 51 to 53: In the following questions, select the answer choice that provides the best meaning of the word given.

51. ELICIT

(a) to act illegally (b) to deceive (c) to draw forth (d) to entreat

52. CULMINATE

(a) to slander (b) to reach a final effect
(c) to overwhelm (d) to heap together

53. APPERTAIN

(a) to comprehend (b) to procure (c) to belong (d) to find out

Direction for questions 54 to 58: Fill in the blanks with the appropriate choices.

54. For almost seven years, Mrs Jacob ___ unable to move her head.

(a) was (b) looks (c) had been (d) is

55. Biofeedback training is based on the ___ that we can gain control on our bodily functions.

(a) understanding (b) aspect (c) feeling (d) premise

56. The sharp cracking of a twig mixed with a bird's ___ made a great impact on him.

(a) cry (b) shriek (c) squawk (d) scream

57. It is possible to listen to ___ as well as to sound, just as it is possible to see both light and shadow.

(a) music (b) silence (c) instrument (d) voice

58. He prefers swimming ___ any other sport.

(a) than (b) over (c) to (d) against

Direction for questions 59 to 63: From the four choices provided, choose the analogy that is most similar to the one in the question.

59. wealth : poverty

(a) part : whole (b) good : excellent (c) prodigal : chary (d) wicked : sinful

60. misfortune : catastrophe

(a) miniature : big (b) limited : infinite
(c) knowledge : learning (d) generosity : parsimony

61. molecule : atoms

- (a) family : sisters (b) light : bulb (c) tissue : cells (d) body : limb

62. limp : walk

- (a) flap : fly (b) run : race (c) stutter : talk (d) chew : digest

63. riddle : solve

- (a) mirage : illusion (b) joke : amuse (c) tangle : unravel (d) target : aim

Direction for questions 64 to 68: A number of sentences are given below which, when properly sequenced, form a coherent paragraph, Each sentence is labelled with a letter. Choose the most logical order of sentences from among the four given choices to construct a coherent paragraph.

64. A. It is turning off the tap.

B. And with no consensus of the exit policy, the government is damned if it supports loss-making units and damned if it doesn't.

C. The private sector did the same in the past because securing legal sanction for closure was virtually impossible.

D. After years of funding the losses of public sector companies, the government is doing the unthinkable.

- (a) DACB (b) CADB (c) DCAB (d) BDAC

65. A. Trade protocols were signed, the dollar as the medium of exchange was ignored, trade was denominated in rupees and the exchange rate between the two countries was to be fixed outside the ambit of free markets.

B. A young India, some years after independence fashioning her foreign policy of non-alignment, found it prudent to stay close to the former Soviet Union.

C. Once upon a time there was a superpower named Soviet Union that attracted apprehension of the global aspirations of the other superpower, the US.

D. One way of doing this was to evolve a bilateral relations in trade that could be called upon to provide a buffer against the arm-twisting by the US.

- (a) CBAD (b) BADC (c) BCAD (d) CBDA

66. A. I had heard that sort of thing before.

B. He said that his generation was the first to believe that it had no future.

C. A young American made earthling stopped by my house the other day to talk about some book of mine he had read.

D. He was the son of a Boston man who had died an alcoholic vagrant.

- (a) CDBA (b) ABCD (c) CBAD (d) ABDC

67. A. In 1995, that ratio has gone up to 60 per cent, an average annual growth of 8-10 per cent.
B. Fifty years ago, India's roads carried 11 per cent of the goods traffic that moved.
C. Indian roads have emerged as a very important mode of transport.
D. That sounds good, but at the same time, the number of vehicles registered has gone up by 121 times in the same period.

- (a) ABCD (b) CDAB (c) CBAD (d) CABD

68. A. Siasat competes with Rehnuma and Munsif, both of are aggressive players.
B. As many as 25 per cent of the 0.3 million NRIs in the Gulf are estimated to be from Andhra Pradesh and mostly Hyderabad.
C. The Urdu daily scenario of Hyderabad is very competitive.
D. For Siasat, an interesting outgrowth is its international presence.

- (a) ABCD (b) CBDA (c) CADB (d) BCDA

Direction for questions 69 to 73: In each of the following sentences, a part of the sentence is underlined. Beneath each sentence four different ways of phrasing the underlined part are indicated. Choose the best alternative among the four options.

69. He considers me as a fool.

- (a) I as a fool (b) me for a fool (c) I for a fool (d) me a fool

70. The accountant has all ready given the balance sheet.

- (a) already given (b) already give (c) already make (d) already given

71. Jack may be a better player to me.

- (a) a better player than me (b) a better player than I
(c) the better player to me (d) the better player than I

72. He not only was competent but also intelligent.

- (a) Not only he was competent (b) He was not only competent
(c) Not only was he competent (d) He was competent not only

73. There have been heavy rainfall yesterday.

- (a) have been strong rainfall (b) has been strong rainfall
(c) has been heavy rainfall (d) was been heavy rainfall

Direction for questions 74 to 77: Choose the alternative that gives the closest meaning for the underlined expression.

74. Our plans were all set, and then she came along to upset the apple cart.

- (a) to make apple pie (b) to bring a basket of apples
(c) to spoil our plans (d) to be clumsy

75. I still insist that Ryan is not as black as he is painted.

- (a) not so tamed (b) not a good artist
(c) not pessimistic (d) not as bad as he is said to be

76. He chewed over the bizarre incident and decided to inform his uncle.

- (a) slept over (b) overate (c) dreamed over (d) consider at length

77. His friends advised him to be fair and square in his dealings.

- (a) careful (b) considerate (c) polite (d) upright

Direction for questions 78 to 80: Mark the alternative that has the opposite meaning of the word given in the question.

78. audit

- (a) check (b) bother (c) study (d) overlook

79. authenticate

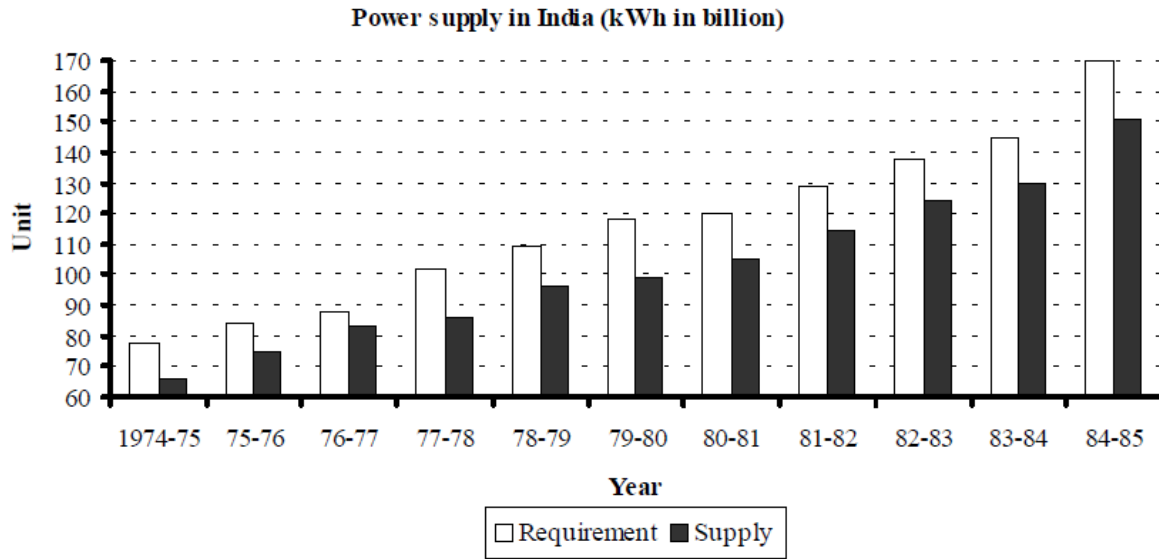
- (a) real (b) genuine (c) confirm (d) tenacious

80. avid

- (a) eager (b) passive (c) interested (d) energetic

SECTION – 3

Direction for questions 81 to 85: Answer the questions based on the following information available in the bar graph. The graph represents the annual supply and requirement of power in billion kWh in India in different years.



81. What was the percentage increase in the supply of power from the start to the end of the given period?

- (a) 144 (b) 112 (c) 128 (d) None of these

82. The cumulative difference between the requirement and supply of power (kWh in billions) within a decade of 1974-75 to 1983-84 is

- (a) 119 (b) 131 (c) 149 (d) 151

83. What is the ratio of the availability of supply in 1976-77 to the requirement in 1983-84?

- (a) 0.57 (b) 0.63 (c) 0.51 (d) 0.36

84. The difference between the percentage increase of supply from 1976-77 to 1980-81 and the percentage increase in requirement from 1980-81 to 1984-85 is

- (a) 12% (b) 19% (c) 16% (d) None of these

85. How many years have registered a minimum of 10% increase in the requirement of power compared to the previous year?

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

Direction for questions 86 to 90: Answer the questions based on the following information provided in the tabular form, given below. A survey was conducted for monthly per capita consumer expenditure of different food and nonfood items (in per cent).

Monthly per capita consumer expenditure of different items (in per cent).						
Item	Rural			Urban		
	1983	1978	1973	1983	1978	1973
Cereal	36.3	37.4	46.0	22.9	24.4	27.2
Milk	7.5	7.7	7.3	9.2	9.5	9.3
Oil	4.0	3.6	3.5	4.8	4.6	4.8
Meat	3.0	2.7	2.5	3.6	3.5	3.3
Vegetable	4.7	3.8	3.6	5.0	4.4	4.4
Fruit	1.4	1.1	1.1	2.1	2.0	2.0
Sugar	2.8	2.6	3.8	2.5	2.6	3.6
Other foods	5.8	5.5	5.2	9.0	9.0	9.9
Food total	65.6	64.3	72.9	59.1	60.0	64.5
Intoxicants	3.0	2.9	3.1	2.4	2.4	2.8
Fuel	7.0	6.0	5.6	6.9	6.4	5.6
Clothing	8.6	8.7	7.0	7.6	7.0	5.3
Footwear	1.0	0.7	0.5	1.1	0.6	0.4
Durables	2.3	7.0	2.2	2.3	8.9	2.2
Miscellaneous	12.5	10.3	8.7	20.5	14.6	19.2
Non-food total	34.4	35.7	27.1	40.9	40.0	35.5

86. The percentage of per capita expenditure on food registered what percentage decrease between 1973 and 1983 (for urban consumers)?

- (a) 9 (b) 10 (c) 10.5 (d) 8

87. If the total per capita expenditure in an urban household in 1973 was Rs. 531, approximately, how much of it was spent on sugar?

- (a) Rs. 16.80 (b) Rs. 18.30 (c) Rs. 19.10 (d) Rs. 21.00

88. If the total per capita expenditure in 1978 in the rural areas was Rs. 580, how much of it was spent on clothing?

- (a) Rs. 48.20 (b) Rs. 50.50 (c) Rs. 51.70 (d) Rs. 54.75

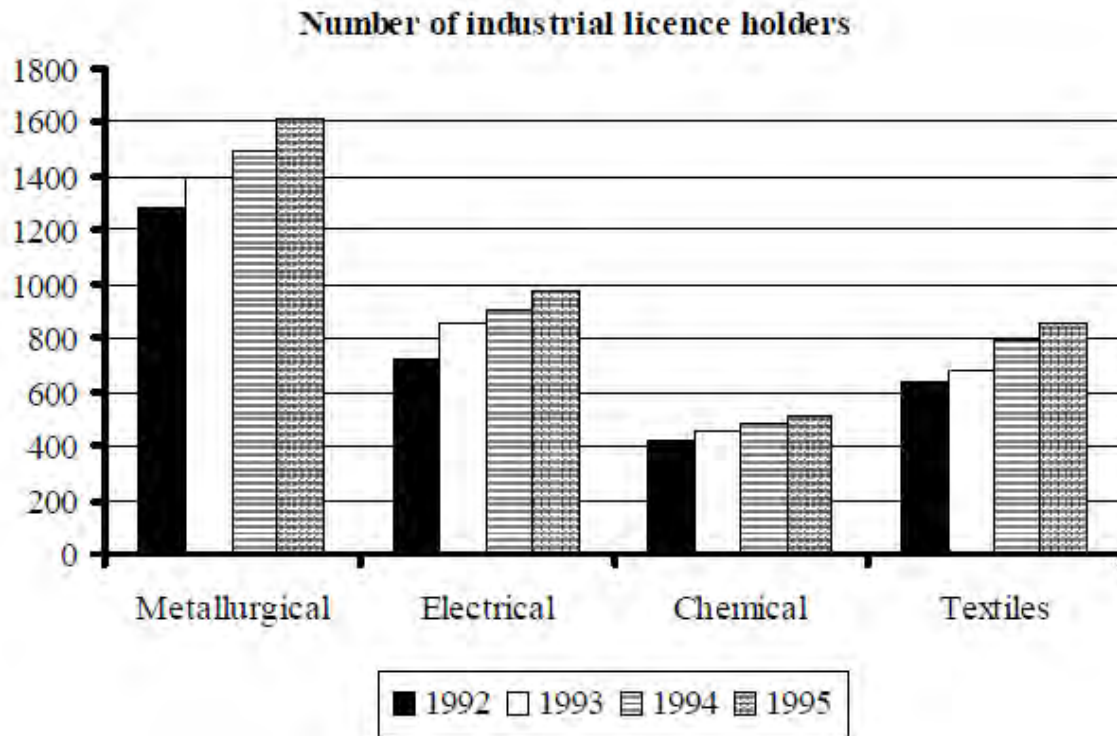
89. In 1983, if the rural and urban per capita expenditures were Rs. 665 and Rs. 765, respectively, what was the difference between their per capita expenditures on food items?

- (a) Rs. 16 (b) Rs. 19 (c) Rs. 21 (d) Rs. 25

90. In 1973, in the rural areas, the per capita expenditure on oil formed what per cent of the per capita expenditure on vegetables?

- (a) 97.2 (b) 99.4 (c) 102.5 (d) None of these

Direction for questions 91 to 95: These questions are to be answered with the help of the following bar graph, that gives total number of license holders for screening metallurgical, electrical, chemical and textiles industries during the years 1992 to 1995.



91. What is the difference between the total number of new licences issued to all the mentioned industries in 1993 and 1995?

- (a) 120 (b) 15 (c) 155 (d) 60

92. The number of newly issued licenses to the Electrical industry between 1992 and 1994 forms approximately what per cent of a similar increase in the Metallurgical industry during the same period?

- (a) 95 (b) 105.25 (c) 123.4 (d) insufficient data

93. Which of the following industries has had the smallest percentage increase in the number of licenses issued over the 4-year period mentioned in the graph?

- (a) Metallurgical (b) Electrical (c) Chemical (d) Textile

94. If the average cost of setting up a new textiles unit is Rs. 20 lakh while maintaining an existing unit is Rs. 1 lakh, what was the average expenditure of textiles unit in the year 1993?

- (a) Rs. 13 lakh (b) Rs. 23 lakh (c) Rs. 11.45 crore (d) Rs. 1.71 lakh

95. Due to a new government regulation in 1994, 40% of the new licences issued to chemical industries in 1994 and 20% of the existing industries in the chemical sector were forced to shut down because of non-conformance to the new environmental laws. What per cent of the chemical industries remained unaffected?

- (a) 66.6 (b) 24.1 (c) 61.3 (d) 78.5

Direction for questions 96 to 100: Answer the questions based on the following data. A company Daant Chamko Ltd. is planning to introduce a new variety of toothpaste. It has recruited MBA summer trainees to conduct a market research to establish the relationship between the price of a toothpaste used by a household and the household's monthly income. The following information is gathered.

Price of toothpaste used (Rs.)	Number of households by income category				
	< Rs. 1, 500	Rs. 1, 500-2, 500	Rs. 2, 500-3, 500	Rs. 3, 500-5, 000	> Rs. 5, 000
< 4	1500	500	–	–	–
4 – 6	1750	750	350	150	50
6 – 8	500	1200	400	200	50
8 – 10	250	450	500	400	100
> 10	50	100	250	300	200

96. What is the average price of a toothpaste used by a household with income of over Rs. 5,000?

- (a) Rs. 8.75 (b) Rs. 9.00 (c) Rs. 6.95 (d) Cannot be determined

97. What is the probability of a household with income less than or equal to Rs. 5,000 p.m. using a toothpaste costing less than Rs. 8?

- (a) 0.92 (b) 0.76 (c) 0.63 (d) None of these

98. If a family uses a toothpaste priced at between Rs. 6 and Rs. 8, what is the probability that its income is at least Rs. 2,500 p.m.?

- (a) 0.20 (b) 0.22 (c) 0.28 (d) 0.02

99. What is the ratio of households with income of less than Rs. 1,500 p.m. to the total number of households?

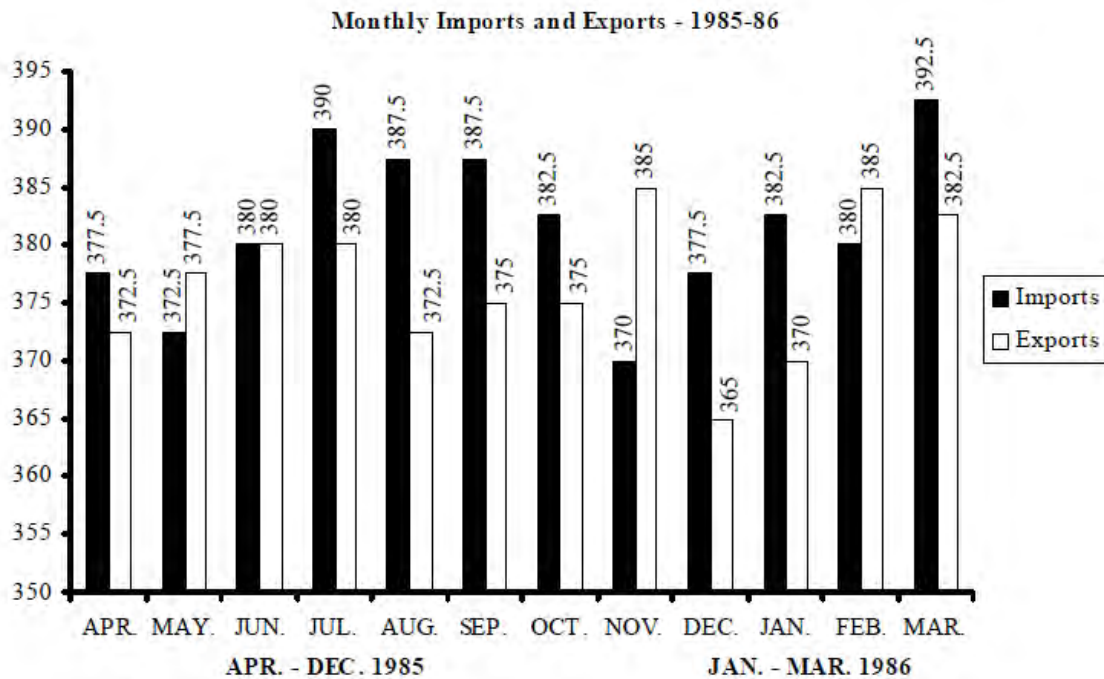
- (a) 0.68 (b) 0.915 (c) 0.405 (d) 0.210

100. Which of the following can be definitely stated?

- I. As income increases, consumption of low-priced toothpastes drops.
 II. Lower the income, no expensive toothpaste will be used by that household.
 III. More than 50% of the households have incomes less than Rs. 2,500 p.m.

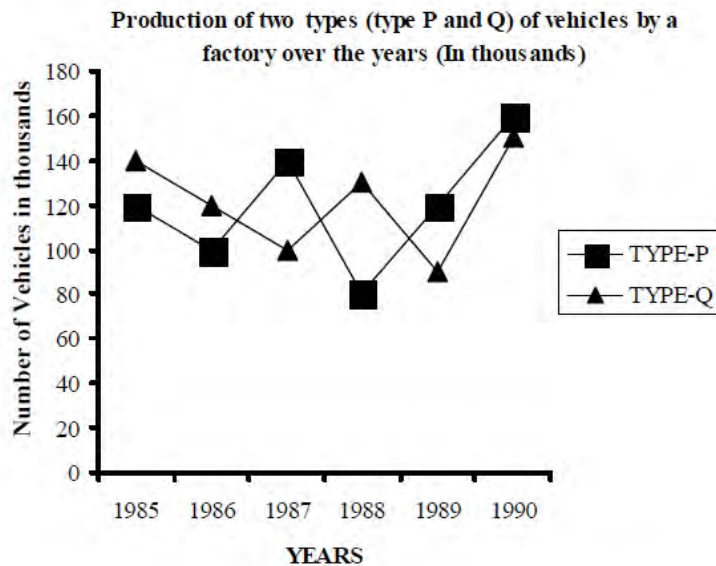
- (a) Only I (b) Only III (c) I and III (d) II and III

Direction for questions 101 to 105: The following bar graph gives monthly imports and exports (in Rs. million) during the financial year 1985-86. Answer the questions based on information from this bar graph.



101. What was the total value of exports (in Rs. mn) during the period April-Sept. 1985?
 (a) Rs. 1.885 (b) Rs. 2.632 (c) Rs. 2.257.5 (d) Rs. 2.325
102. The gap between monthly imports and exports was greatest in ____.
 (a) Aug. and Sept. (b) Sept. and Dec.
 (c) Dec. and Jan. (d) Aug. and Nov.
103. In the first three months of 1986, imports exceeded exports by ____.
 (a) Rs. 27.5 mn (b) Rs. 20 mn (c) Rs. 17.5 mn (d) Rs. 32.5 mn
104. During the financial year 1985-86,
 (a) imports exceeded exports by Rs. 100 million.
 (b) imports exceeded exports by Rs. 60 million.
 (c) exports exceeded imports by Rs. 250 million.
 (d) exports and imports were of equal value.
105. In how many months did the imports exceed exports?
 (a) 8 (b) 3 (c) 7 (d) 9

Direction for questions 106 to 110: Answer the following questions based on the following graph given below. The graph represents the annual production of the two types of vehicles, type P and type Q, (in thousands) from the year 1985 to 1990.

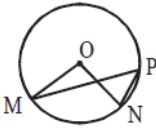


106. In which of the following years was the total production of both P-and Q-type of vehicles together, the maximum?
 (a) 1986 (b) 1990 (c) 1989 (d) 1987
107. In which of the following years was the percentage increase in production of Q-type vehicles exactly 30 over the previous year?
 (a) 1987 (b) 1989 (c) 1990 (d) 1988
108. The production of Q-type vehicles in 1988 was approximately what per cent of P-type vehicles in the same year?
 (a) 140 (b) 30 (c) 122 (d) 162

109. What was the difference in production of number of Q-type vehicles between 1988 and 1989?
 (a) 20,000 (b) 2,00,000 (c) 2,000 (d) 40,000
110. What was the approximate percentage drop in production of P-type vehicles from 1987 to 1988?
 (a) 60 (b) 50 (c) 40 (d) 35

Direction for questions 111 to 120: Each of the following questions consists of a question and two statements I and II.

Choose:

- (a) if the question can be answered by one statement alone, but cannot be answered by using the other statement alone.
 (b) if the question can be answered by using either statement alone.
 (c) if the question can be answered by using both the statements together but cannot be answered by using either statement alone.
 (d) if the question cannot be answered even by using both the statements together.
111. What are the individual prices of three cameras?
 I. The three cameras have an average price of \$172.
 II. Two are identical and sold for \$332 together.
112. In the given circle with centre O, what is the measure of $\angle ONP$?
- 
- I. $\angle OMN = 31^\circ$
 II. $\angle NMP = 98^\circ$
113. What is the numerical value of the ratio $\frac{n}{m}$?
 I. $mn = 14$
 II. $m = 6n$
114. What is the highest power of 5 that can completely divide $n!$
 I. Precisely 2 integers between 1 and n , both inclusively are multiples of 50.
 II. $n < 200$.
115. What is the area of a regular hexagon?
 I. The length of one of the boundary lines of the hexagon is 36 cm.
 II. The area of the hexagon is 6 times the area of an equilateral triangle formed on one of the sides.
116. Mr. Dhingra earns Rs. 8, 000 per month by working as a visiting lecturer in various colleges. What is his annual income?
 I. During his entire free time, he gives free coaching to deserving students.
 II. 40 students attend his free sessions.
117. A positive number is exactly divisible by both 3 and 7. What is that number?
 I. It is greater than 20.
 II. It is less than 25.

118. A radio is normally sold at a profit of 15%. At the annual sale, it is offered at a discount of 5%. What is its cost price?
- I. The selling price after discount amounts to Rs. 150.
 - II. The discount given is Rs. 30.
119. A room $20\text{ m} \times 10\text{ m}$ is to be painted. What will be the total cost?
- I. The height of the room is 3 m.
 - II. Costing will be done on a square metre basis.
120. A train leaves from Delhi at 8.00 a.m. and reaches Agra 11.30 a.m. What is its speed?
- I. It crosses a 400 metre-long bridge in 40 seconds.
 - II. It crosses a railway platform 800 metres long in 64 seconds.

Section – 4

121. The profit percentage earned by selling a watch for Rs. 820 is as much as the loss percentage incurred when it is sold for Rs. 650. What is the cost price of the watch?
(a) Rs. 750 (b) Rs. 690 (c) Rs. 735 (d) Rs. 710
122. The ratio of the ages of Anjali and Smita is 2 : 3. After 6 years the ratio of their ages becomes 5 : 7. What is the present age of Smita?
(a) 24 years (b) 30 years (c) 36 years (d) 18 years
123. In a group of 7 people, the average age is found to be 17 years. Two more people joined with an average age 19 years. One person left the group whose age was 25 years. What is the new average age of the group?
(a) 17.5 years (b) 16.5 years (c) 18 years (d) 16 years
124. One-fifth of the boys and one-fourth of the girls in a class exclusively joined a swimming camp. Two-thirds of boys and three-fifths of girls exclusively joined a sports camp. If the total number of boys and girls in the class is 65, how many girls joined the sports camp?
(a) 12 (b) 4 (c) 16 (d) Can't be determined
125. Bucket P has thrice the capacity as bucket Q. It takes 60 turns for bucket P to fill the empty drum. How many turns will it take for both the buckets P and Q together to fill the empty drum?
(a) 30 (b) 40 (c) 45 (d) 90
126. If a sum of money is divided equally among n children, each child will receive \$60. If another child is added to the group, and the sum is divided equally among all the children, each child receives a \$50 share. What is the sum of money?
(a) \$3000 (b) \$300 (c) \$110 (d) \$10
127. The average age of boys and girls in a class is 10.5 years; that of the boys is 10.6 years and that of the girls is 10.1 years. If there are 60 boys in the class, how many girls are there in the class?
(a) 15 (b) 20 (c) 22 (d) 25
128. x is a whole number. If the only common factors of x and x^2 are 1 and x , then x is ____.
(a) 1 (b) a perfect square (c) an odd number (d) a prime number
129. A salesman's terms were changed from a flat commission of 5% on all his sales to a fixed salary of Rs. 1,000 plus 2.5% commission on all sales exceeding Rs. 4,000. If his remuneration, according to the new scheme, was Rs. 600 more than by the first scheme, what was his sales worth?
(a) Rs. 6,000 (b) Rs. 8,000 (c) Rs. 12,000 (d) Rs. 16,000
130. I went to a shop to purchase some refills costing Rs. 1.60 each but the clerk did not have change for my 20-rupee note. I was constrained to purchase some 30 paise labels as well so that no money needed to be returned. After purchasing the maximum number of refills under the given constraints, how many labels did I have to purchase?
(a) 2 (b) 4 (c) 6 (d) 8
131. A sum of Rs. 1,000 is borrowed at a certain rate of interest. After 4 months, Rs. 500 is again borrowed, but this time at a rate of interest that is thrice the original rate. At the end of the year, the total interest on both the amounts is Rs. 100. What is the original rate per annum?
(a) 3.33% (b) 5% (c) 8% (d) 10%

132. A shopkeeper has two alternatives:
 I. Giving 2 successive discounts of 20% and 30%.
 II. Giving 2 successive discounts of 39% and 15%.
 Which of the following is true?
 (a) Alternative I is better for the customer.
 (b) Alternative I is better than a discount of 42% for the shopkeeper.
 (c) Alternative II is better than a discount of 40% for the customer.
 (d) No conclusion is possible.
133. A set of goods together cost Rs. 1,000. One-fourth of it was sold at a loss of 10%. At what per cent must the remainder be sold to gain 20% on the whole investment?
 (a) 30 (b) 35 (c) 50 (d) 52.5
134. A tank can be filled by one tap in 10 minutes and by another in 30 minutes. Both the taps are kept open for 5 minutes and then the first one is shut off. In how many minutes more is the tank completely filled?
 (a) 5 (b) 7.5 (c) 10 (d) 12
135. If the average cost of setting up a new textiles unit is Rs. 15 lakh while maintaining an existing unit is Rs. 2 lakh, what was the average expenditure of textiles unit in the year 1993?
 Number of textiles units in the year 1992 = 645
 Number of textiles units in the year 1993 = 670
 (a) Rs. 1.94 lakh (b) Rs. 23 lakh (c) Rs. 11.45 lakh (d) Rs. 2.5 lakh
136. The rate of simple interest on a sum of money is 6 per cent per annum for the first 3 years, 8 per cent per annum for the next 5 years and 10 per cent per annum for the period beyond 8 years. If the simple interest accrued by the sum for a total period of 10 years is Rs. 1,560, what is the sum?
 (a) Rs. 1,500 (b) Rs. 3,000 (c) Rs. 2,000 (d) Data inadequate
137. Line AB is 24 metres in length and is tangent to the inner one of the two concentric circles at point C. Points A and B lie on the circumference of the outer circle. It is known that the radii of the two circles are integers. The radius of the outer circle is.
 (a) 13 metres (b) 5 metres (c) 7 metres (d) 4 metres
138.
$$\frac{\frac{1}{4} - \frac{1}{6} - \frac{1}{48}}{\frac{1}{4} - \left(\frac{1}{6} - \frac{1}{48}\right)} \div \frac{\frac{1}{4} \times \frac{1}{6} - \frac{1}{48}}{\frac{1}{4} \times \left(\frac{1}{6} - \frac{1}{48}\right)} = ?$$

 (a) 10 (b) 2 (c) $\frac{21}{20}$ (d) $\frac{20}{21}$
139. The interior angles of a polygon are in A.P. The smallest angle is 120° and the common difference is 5. Then the number of sides of the polygon are
 (a) 16 (b) 9 (c) 8 (d) None of these
140. Divide Rs. 1, 000 into two parts so that if the two parts are invested at 4% and 5% simple interest, the total yearly income may be Rs. 46.50.
 (a) Rs. 350 at 4% and Rs. 650 at 5% (b) Rs. 650 at 4% and Rs. 350 at 5%
 (c) Rs. 400 at 4% and Rs. 600 at 5% (d) Rs. 600 at 4% and Rs. 400 at 5%
141. A large cube is formed from the material obtained by melting three smaller cubes of sides 3 cm, 4 cm and 5 cm. What is the ratio of the total surface area of the smaller cubes to the large cube?
 (a) 2 : 1 (b) 3 : 2 (c) 25 : 18 (d) 27 : 20

142. To complete a piece of work, A and B take 30 days, B and C take 24 days and C and A take 20 days. They all work for 10 days, and then B and C leave. How many more days will A take to finish the work?
- (a) $\frac{45}{11}$ (b) $\frac{9}{2}$ (c) 8 (d) 18
143. The captain of a cricket team of 11 players is 25-year old and the wicketkeeper is 3 years older than the captain. If the ages of these two are excluded, the average age of the remaining players is 1 year less than the average age of the whole team. What is the average age of the whole team?
- (a) 21.5 year (b) 22 year (c) 22.5 year (d) 23 year
144. A man takes 5 hours to walk to a certain place and returns by car. He would have, however, gained 3 hours if he had completed his entire journey by car. How long would he have taken to walk both ways?
- (a) 6 hours (b) $6\frac{1}{2}$ hours (c) 7 hours (d) 8 hours
145. A one-foot tall tree was planted on New Year's day. If there is a 10 per cent increase in its height every month with respect to the previous month, which of the following will be its height on All Fool's Day (April 1)?
- (a) 1.729 feet (b) 1.312 feet (c) 1.464 feet (d) 1.331 feet
146. The average age of 40 boys of a class is 12 years. When 10 new boys are admitted, the average is increased by 0.1 year. What is the average age of new boys?
- (a) 12.1 years (b) 12.4 years (c) 12.33 years (d) 12.5 years
147. Anand and Bharat can cut 5 kg of wood in 20 min. Bharat and Chandra can cut 5 kg of wood in 40 min. Chandra and Anand cut 5 kg of wood in 30 min. How much time Chandra will take to cut 5 kg wood alone?
- (a) 120 min (b) 48 min (c) 240 min (d) $\frac{120}{7}$ min
148. A man can row $4\frac{1}{2}$ kmph in still water but takes twice as long to row up a stream as down it. What is the rate of the stream in kmph?
- (a) 1.5 (b) 2.25 (c) 3 (d) Data insufficient
149. There are two squares one of whose diagonal is double that of the other. The ratio of area of the bigger one to that of the smaller one is
- (a) 3 : 2 (b) 4 : 1 (c) 1 : 4 (d) 2 : 1
150. An alloy contains copper and zinc in the ratio 5:3 and another contains copper and tin in the ratio 8 : 5. If equal weights of the two are melted together to form a 3rd alloy, find the weight of tin per kg. in the new alloy.
- (a) $\frac{40}{129}$ (b) $\frac{5}{13}$ (c) $\frac{5}{26}$ (d) $\frac{28}{5}$

Direction for questions 151 to 160: Answer each of the questions independently.

151. A train from Mumbai to Pune and another from Pune to Mumbai start at the same time, cross one another en route and reach their destinations in 4 hour and 1 hour, respectively, after crossing. If the first train was travelling at 24 kmph, at what speed was the second train travelling?
- (a) 12 kmph (b) 48 kmph (c) 60 kmph (d) 72 kmph

152. In a partnership, A invests $\frac{1}{6}$ of the capital for $\frac{1}{6}$ of the period. B $\frac{1}{3}$ of the capital for $\frac{1}{3}$ of the period and C, the rest of the capital for the entire period. What is A's share of the total profit of Rs. 2,300?
 (a) Rs. 100 (b) Rs. 300 (c) Rs. 400 (d) Rs. 1,800
153. A man rows 1 km upstream in 20 min and 1 km downstream in 15 min. What is his speed of rowing in still water?
 (a) 25 kmph (b) 3 kmph (c) 3.5 kmph (d) 7 kmph
154. A dealer offered a machine for Rs. 275; but even if had he charged 10% less, he would have made a 10% profit. What did the machine actually cost him?
 (a) Rs. 200 (b) Rs. 220 (c) Rs. 225 (d) Rs. 242.50
155. The sum of the cubes of three positive numbers is 8, 072 and the ratio of the first to the second as also the second to the third is 3 : 2. What is the second number?
 (a) 2 (b) 4 (c) 6 (d) 12
156. An egg-seller purchases 6 dozen eggs at 3 per Re. 1. Half a dozen eggs break during transportation. At what rate must he sell each egg to still make a profit of 10%?
 (a) 35 p (b) 37 p (c) 40 p (d) 42 p
157. In what proportion should one variety of oil at Rs. 9.50 per kg be mixed with another at Rs. 10 per kg to get a mixture worth Rs. 9.60 per kg?
 (a) 1 : 4 (b) 10 : 4 (c) 4 : 1 (d) 2 : 1
158. The population of a town increases geometrically. If the population is 10000 now and was 8000 two years ago, what will it be two years hence if it grows at the same rate?
 (a) 11175 (b) 12000 (c) 12250 (d) 12500
159. A group of students volunteered to finish a work in 25 days. 10 of the students did not turn up due to illness and the work was finished in 35 days. The original number of students in the group was
 (a) 25 (b) 30 (c) 35 (d) 45
160. The radius of a circle is equal to the length of one side of an equilateral triangle. If the perimeter of the triangle is 3 cm what is the ratio of the area of the triangle to that of the circle?
 (a) $\frac{\sqrt{3}}{22}$ (b) $\frac{88}{7\sqrt{3}}$ (c) $\frac{7\sqrt{3}}{22}$ (d) $\frac{7\sqrt{3}}{88}$

169. Find the missing alphabet:
T, r, O, m, J, ?
(a) h (b) i (c) I (d) g
170. Complete the series:
ECP, DDR, CET, ?
(a) BGU (b) BFU (c) AFV (d) BFV
171. If JAPAN is coded KCSES, then the code for CASTLE will be _____.
(a) DIJOBT (b) DJKRDP (c) DKMSGR (d) DCVXQK
172. If CAUTIOUS is BBTUHPTT, then NEGLIGENT is _____.
(a) MFFMHFOS (b) MFHMHDMU (c) MFFMHHDOS (d) MFFMHJDOS
173. In a certain language, 'cul max dir' means 'nice little boxes', 'sut med bix' means 'well arranged row', 'bix fac dir' means 'row of boxes'. Which of the following stands for 'of' in that language?
(a) max (b) bix (c) fac (d) sut
174. In a certain code language, 'pit nae tom' means 'apple is green', 'nae to tap' means 'green and white', and 'ho tom ka' means 'shirt is white'. Which of the following represents 'apple' in that language?
(a) nae (b) tom (c) pit (d) ho
175. The letter of TEACHING may be rearranged as CHEATING; if you follow the same code, what will happen to GRADIENT?
(a) DIRAGENT (b) RADIGENT (c) DIERATIN (d) RATINGDI

176. What is the value of A, B, C and D in the following matrix?

A	17	14	11
B	15	16	21
C	12	19	22
23	D	13	8

- (a) A=20, B=10, C=18, D=9 (b) A=10, B=18, C=9, D=10
(c) A=20, B=10, C=9, D=18 (d) A=10, B=20, C=18, D=9
177. Find the missing number.

31	21	18	35
23	17	14	34
16	8	?	2

- (a) 4 (b) 8 (c) 12 (d) 16
178. Put the suitable number in the blank spaces.

2	9	16
3	28	35
4	?	?

- (a) 64, 71 (b) 33, 40 (c) 65, 72 (d) 33, 40

Direction for questions 179 to 183: Read the following information, and answer the questions given below.

P, Q, R and S live together in a house.

I. P lives with his (or her) parents.

II. Q lives with at least 3 persons younger than him (or her).

III. S lives with his mother, and is older than at least 2 persons living with him.

IV. R lives with his (or her) son and is not older than S.

179. The total number of persons in that house is ____.
 (a) 3 (b) 4 (c) 5 (d) 6
180. Q is P's ____.
 (a) father (b) mother (c) son (d) grandmother
181. S is P's ____.
 (a) brother (b) father (c) mother (d) sister
182. R is Q's ____.
 (a) daughter (b) son (c) grandson (d) daughter-in-law
183. R is S's ____.
 (a) wife (b) husband (c) son (d) daughter
184. A walks 2 km southward and takes a right-turn and walks 5 km and then turns left and walks 3 km and again turning left walks 5 km. In which direction is he now from the starting point?
 (a) South east (b) South (c) East (d) West
185. Mr Ajay started from his house, walked 4 km north, then 6 km west, then 12 km south. How far was he from his home then?
 (a) 8 km (b) 5 km (c) 20 km (d) 10 km
186. Aditya faces north and covers 24 km; turns west and covers 12 km, then turns south and covers 6 km, and turns west again and covers 12 km. In which direction is moving with respect to the starting point?
 (a) South-east (b) North-east (c) North-west (d) South-west

Direction for questions 187 to 191: Each of the following questions is based on the following series.

A	B	C	D	5	F	G	H	9	J	K	L	M	N	15	P	Q	R	16	T	U	22	W	X	Z
---	---	---	---	---	---	---	---	---	---	---	---	---	---	----	---	---	---	----	---	---	----	---	---	---

187. If the above series is written in the reverse order, then which letter will be the 16th letter from the left?
 (a) K (b) L (c) M (d) J
188. Which letter/number is 5th to the left of 19th letter from the right of A?
 (a) M (b) P (c) Q (d) 15
189. Which letter/number is 9th to the left of 14th letter from your left?
 (a) F (b) G (c) T (d) 5
190. Which of the following options would replace the question mark?
 AC5 G9K 13OQ ?
 (a) Q16U (b) RT22 (c) SU22 (d) 16TU
191. Which letter is between 7th letter from left and 11th letter from right?
 (a) K (b) L (c) M (d) J

Direction for questions 192 and 193: Answer the questions based on the following information.

P drank more at the party than W and left later than V.

T drank more than P and less than V and left later than P and earlier than S.

U drank less than Q and more than V and left later than S.

W drank more than R and left earlier than V.

192. Who left the earliest?
(a) P (b) S (c) T (d) W
193. Who among the following drank the least?
(a) P (b) R (c) T (d) U

Direction for questions 194 to 197: In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Mark:

- (a) if only assumption I is implicit.
(b) if only assumption II is implicit.
(c) if either assumption I or II is implicit.
(d) if neither assumption I nor II is implicit.
194. **Statement:** To the extent that India operates in a globalized economy, it is absolutely vital that Indian industry convince the rest of the global players about its worthiness of trust, honest intentions, promise-keeping and ethical behaviour.
Assumptions:
I. The most advanced economies are becoming vigilant about corruption and unethical business practices.
II. Indian industry will have to demand of itself a respect for rules and transparent corporate governance.
195. **Statement:** No truthful Indian would have said that the judges of the Supreme Court were motivated by caste in giving their decisions.
Assumptions:
I. Judges can never deliver judgements on the basis of caste lines.
II. Earlier our judiciary was monopolised by Brahmins.
196. **Statement:** There is no doubt that in the present warlike situation in the Kargil front, the entire nation is behind our armed forces, both emotionally and financially.
Assumptions:
I. The relatives and near and dear ones of the army personnel are residing all over the country.
II. Different funds have been set up for supporting the families of the dead soldiers.
197. **Statement:** Stock Holding Corporation of India Ltd (SHCIL) will offer its services through the internet in the next two months while its stock lending scheme is expected to take off in the immediate future.
Assumptions:
I. The said services via the internet are at a developmental stage.
II. The move will not benefit the stock brokers.

198. In the closing days of the Civil War, President Abraham Lincoln was planning to graciously welcome the defeated Confederate states back into the Union. After Lincoln was assassinated, however, the 'Radical Republicans' in Congress imposed martial law in the South, creating resentment that caused problems well into this century. Had Lincoln lived, the history of regional conflict in 20th-century America would have been considerably different.

All of the following assumptions underlie the argument above EXCEPT

- (a) the imposition of martial law in the South was primarily responsible for the resentment felt in the South.
 - (b) had he lived, Lincoln would have treated the defeated South as he had planned.
 - (c) Lincoln would have been able to prevent the Radical Republicans in Congress from imposing martial law in the South.
 - (d) Factors other than the imposition of martial law in the South affected the history of regional conflicts in 20th-century America.
199. Rock and roll music started in the 1950s as a young man's medium, and rock is still best performed by men in their 20s and 30s. As rock performers grow into their 40s, and even 50s, they are simply less physically capable of producing the kind of exciting music they did when they were younger.

All the following assumptions underlie the argument above EXCEPT

- (a) as rock performers mature, their performances tend to become less exciting.
 - (b) rock music is dominated by male performers.
 - (c) women performers have always played a significant role in rock music.
 - (d) the physical demands of performing rock are better met by the young.
200. The honeymooner's haven among the not-so-rich Americans, Las Vegas has much more to offer than shops and slot machines. But sadly, tourists seldom stray off the beaten track. *2001 Guide* is a book that encourages the visitors to do so and discover the living museum, that is the Las Vegas city.

Which of the following information about *2001 Guide* will weaken the intended impact of the book?

- (a) The greatest attraction of Las Vegas that sets it apart from other places is its casino.
- (b) *2001 Guide* does not give a detailed account of the geography of the lesser known facts of Las Vegas.
- (c) An increasing number of young couples are taking to adventures and undiscovered land.
- (d) Las Vegas has many more visitors than first honeymooners.

GIM BBA

Sample Paper 3 with Q & A



Disclaimer: This content is not created or owned by Info Edge (India) Limited

Source: <http://gim.gitam.edu/admissions/sample-papers>

Sample papers

GOT APTITUDE TEST

Syllabus

Structure of GOT – UG & PG Test is as given below

Section No	Section Name	GOT-UG	GOT-PG
1	English Language	10	30
2	Quantitative	15	30
3	Reasoning and Intelligence	15	20
4	General Knowledge	10	-
5	Data Interpretation	-	20

NOTE:

- a. a. The total time for answering 50 questions is 60 minutes for GOT-UG Test . GOT PG candidates are required to answer 100 questions in 90 minutes.
- b. b. GOT-PG is similar to MAT conducted by AIMA. The candidate may prepare for the exam using any MAT Preparatory book.
- c. c. GOT-UG test is similar to UGAT conducted by AIMA. The candidate may prepare for the exam using any preparatory books on UGAT that is available in leading Book shops.

Sample questions and answers

Q1 There are 4 boys and 3 girls. What is the probability the boys and girls sit alternately?

Ans $1/35$

Q2 Two trains are 2 kms apart. Speed of one train is 20m/s and the other train is running at 30 m/s . Lengths of the trains are 200 and 300m. In how much time do the trains cross each other?

Ans 50 seconds

Q3 A & B are two players. They need to select one number from 1 to 25. If both the players select the same numbers they will win the prize. What is the probability of not winning in a single trial?

Ans $24/25$

Q4 Four different integers are in increasing AP such that one number is equal to sum of the squares of the other three numbers.

Ans $-1,0,1,2$

Q5 A train runs first half of the distance at 40 km/hr and the remaining half at 60 km/hr. What is the average speed for the entire journey?

Ans 48km/hr

Q6 In a company there were 75 % skilled employees and the remaining unskilled. 80% of the skilled and 20% of the unskilled were permanent. If the temporary employees were 126 find the total number of employees.

Ans 360

Q7 A person sells a horse at 12.5% loss. If he sells for 92.5 more, he will have a profit of 6%. What is the CP?

Ans 500

Q8 One tap takes 15 min to fill, another tap takes 12 min to fill and the third tap can empty in 20 min. In how much time the tank would be full.

Ans 10 min

Q9 Three mixtures of water and milk are in the ratio 6:7, 5:9, 8:7. What would be the ratio if they were mixed together?

Ans: None of the options were correct. The right answer would be data insufficient.

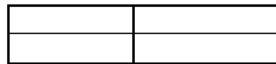
Q10. Two trains are separated by 200km. One leaves at 6:00 am from Delhi and reaches Merrut at 10:00 am. Another train leaves from Merrut at 8:00 am and reaches Delhi at 11:30 am. At what time two trains meet each other?

Ans 8:56 am

Q11 If the height of the triangle decreases by 40% and the breadth increases by 40%. Then the effect on the area is

Ans 16% decrease.

Q12



In how many ways can you go from one corner to the diagonally opposite corner if the movement is through the shortest route..

Ans: 6

Q13 There are only two candidates. 10% of the voter did not vote. 60 votes were invalid. If elected got 308 votes more than the opponent. The elected person got 47% of the total votes. How many votes did each get.

Ans: Option 4 (only one option is having a difference of 308 votes.)

Q14. If area of circle is equal to area of triangle is equal to area of square then which is having the larger perimeter.

Ans: Triangle.

Q15. If $\log_{12}27 = a$ then find the value of $\log_6 16$

Ans. $(4(3-a)) / (3+a)$

Q16 A grandfather has 5 sons and daughters and 8 grandchildren.. They have to be arranged in a row such that the first 4 seats and last four seats are to be taken by grandchildren and the grandfather would not sit adjacent to any of the grandchildren.

Ans. $4 * 8! * 5!$

Q17 A parallelepiped of length = 5cm, breadth = 3cm and height 4 cm. Cube of side 4 cm, cylinder of radius 3 cm and length = 3cm and sphere of radius 3cm. Arrange them in descending order of volume

Ans: Sphere>Cylinder>Cube>Parallelepiped.

Q18 Which of the following statements is/are correct.

Ans: The correct Statements were

$$(1) 99/101 > 97/99 > 95/97, (2) 99^2/101^2 > 97^2/99^2 > 95^2/97^2$$

Q19. A farmer has a rectangular plot. He wants to do fencing along one of the side with the help of the posts. Two posts being on two corners. He brings 5 post less than what he has initially plan because of which the distance between two consecutive post became 8 m instead of 6 m.. What is the length of the side and no of post?

Ans. 120 , 16

Q20: A circular ground of circumference of 88m. A strip of land 3m wide inside and along the circumference is to be leveled. What is the expenditure if leveling cost is Rs. 7 per metre square.

Ans. 1650

Q21: Four horses are tethered at the four corners of a square of side 14cm such that two horses along the same side can just reach each other. They were able to graze the area in 11 days. How many days will they take in order to graze the left out area?

Ans. 3

Q22: Two clocks are synchronized at 12 midnights. One clock gains 2 min per hour and the other clock loses 1min per hour. How many minutes apart its minute hand will be at 11.am

Ans. None of these.

Sample Questions and Answers in GK Section:

Ques1. Bull and bear refer to

Ans: Stock exchange

Ques2. Bhakra Nangal dam was built on river

Ans. Sutlej

Ques3. Tetanus is caused by

Ans. Bacteria

Ques4. De beers manufacture

Ans: Diamonds

Ques5. Commercial vehicles are not manufactured by which of the following

Ans: Birla Yamaha

Ques6. Wings of fire autobiography by

Ans: President A.P.J Abdul Kalam.

Ques7. Which is not a courier company.

Ans: Essar

Ques8. Software and Services Company.

Ans: NASSCOM

Ques9. Panchayti Raj started from which state in India.

Ans: Rajasthan

Ques10. Duration of First five yr plan

Ans 1950-1951 to 1955-1956

Ques11. Which one of following is Banker's Bank

Ans: Reserve Bank of India

Ques12. Economic growth is indicated by

Ans: GDP

Ques13. All India service is created by

Ans: Parliament.

Ques14. Procedure for removal of which two are same out of the following...

Ans. CEC and Judge of the supreme court.

Ques15. Arrange PMs of India in chronological order.....

Ans: Morarjee Desai, Charan Singh, VP Singh, Chanderashekhar.

Ques16. Volkswagon is from which country?

Ans Germany

Ques17. First woman Prime minister in the world

Ans: Seremavo Bandarnaike

Ques18. Which is associated with football

Ans: Merdeka

Ques 19. Venue of XXI winter Olympics 2010

Ans: Canada

Ques 20. Crossed cheque can be Encashed

Ans: Through bank

Ques21. Standard chartered bank merged with.....

Ans: ANZ Grindlay's bank

Ques 22. Which disease is mentioned along with national policy with AIDS

Ans. Tuberculosis

Ques 23. National income in India compilation is done by...

Ans: CSO

Ques 24. Rajdhani Express runs between

Ans: Between Delhi and few state capitals

Ques 25. Maple leaf represents which one of the following countries

Ans: Canada

Ques 26. PAN is required for.....

Ans: D-Mat account

Ques 27. Which one of the following is not matched correctly....

Ans: Faraday-Diffusion of gases