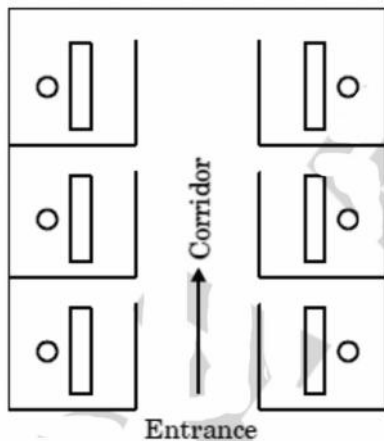


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Analytical Ability and Logical Reasoning

Directions (1 - 4) : The plan given below, shows office for six officers namely A, B, C, D, E and F. Both B and C occupy offices to the right of the corridor (as one enters the office block) and A occupies the office to the left to the corridor. E and F occupy offices on opposite sides of the corridor but their offices do not face each other. The offices of C and D face each other. E does not have a corner office. F's office is further down the corridor than A's, but on the same side.



1. If E sits in his office and faces the corridor, whose office is to his left ?
 (a) A (b) B
 (c) C (d) D
2. Whose office faces A's office ?
 (a) B (b) C
 (c) D (d) E
3. Who is/are F's neighbour(s) ?
 (a) A only (b) A and D
 (c) C only (d) B and C
4. D was heard telling someone to go further down the corridor to the last office on the right. To whose room was he trying to direct that person ?
 (a) A (b) B
 (c) C (d) F
5. Steel Express runs between Tatanagar and Howrah and has five stoppages in between. Find the number of different kinds of one-way second class ticket that Indian Railways will have to print

to service all types of passengers who might travel by Steel Express ?

- (a) 49 (b) 42
 (c) 21 (d) 7

6. Rita, an accomplished pastry chef who is well known for her artistic and exquisite wedding cakes, opened a bakery one year ago and is surprised that business has been so slow. A consultant she hired to conduct market research has reported that the local population doesn't think of her shop as one they would visit on a daily basis but rather a place they'd visit if they were celebrating a special occasion. Which of the following strategies should Rita employ to increase her daily business ?
 (a) making coupons available that entitle the coupon holder to receive a 25% discount on wedding, anniversary, or birthday cakes.
 (b) exhibiting at the next Bridal Expo and having pieces of one of her wedding cakes available for tasting.
 (c) placing a series of ads in the local newspaper that advertise the wide array of breads, muffins, and cookies offered at her shop.
 (d) moving the bakery to the other side of town.
7. Which should be the next two numbers in the series : 28 25 5 21 18 5 14
 (a) 11, 5 (b) 10, 7
 (c) 11, 8 (d) 5, 10

Directions (8-10) : 220 guests are to be transported from A to B. Any number of buses of the following passenger carrying capacities are available.

Type P : 60, Type Q : 50, Type R : 40, Type S : 30
 The cost per trip for a bus of each of these types is given as follows :

Type P : Rs. 200, Type Q : Rs. 140,
 Type R : Rs. 125, Type S : Rs. 95

No buses can be overloaded and prefer no vacant seats in each trips.

8. What is the minimum possible cost for the trip ?
 (a) Rs. 690 (b) Rs. 615
 (c) Rs. 640 (d) Rs. 695
9. How many buses are needed for the above (Minimum cost trip)
 (a) 5 (b) 4

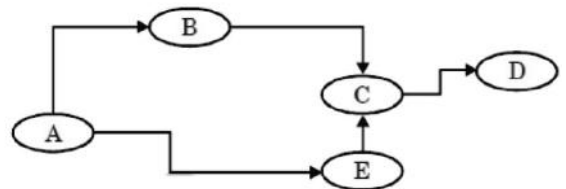
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10. (c) 7 (d) 6
The second cheapest trip arrangement would involve;
- (a) Rs. 630 (b) Rs. 680
(c) Rs. 710 (d) Rs. 655
11. In the following square, number have been filled according to some rule. One space has been left blank. Find the correct number out of those given below for the blank space.

56	65	78
12		30
44	14	48

- (a) 14 (b) 44
(c) 62 (d) 51
12. An elevator has a capacity of 12 adults or 20 children. How many adults can board the elevator with 15 children ?
- (A) 4 (b) 5
(c) 3 (d) 6
- Directions (13-15) :** In each of the following three questions, four numbers are given. Out of these, three are alike in a certain way but the rest one is different. Choose the one which is different from the rest three.
13. (a) 2384 (b) 3629
(c) 3756 (d) 4298
14. (a) 325 (b) 236
(c) 178 (d) 639
15. (a) 5698 (b) 4321
(c) 7963 (d) 4232
16. If finger is called toe, toe is called foot, foot is called thumb, thumb is called ankle, ankle is called palm and palm is called knee, which one finger has a different name ?
- (a) Thumb (b) Ankle
(c) Knee (d) Palm
17. There are 6561 balls out of them 1 is heavy. Find the minimum number of times the balls have to be weighed for finding out the heavy ball.

- (a) 12 (b) 9
(c) 8 (d) 15
- Directions (18 - 20) :** The following sketch shows the pipeline carrying material from one location to another. The capacity of each pipeline is 2000. The demand for the material at B is 800, at C is 800, at D is 1400 and at E is 400. The arrow indicates the direction of material flow through pipeline. The flow through pipelines meets exactly the demand at each location. Flow from B to C is 600.

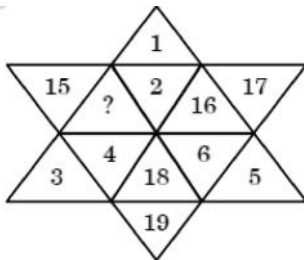


18. The quantity moved from A to E is :
- (a) 400 (b) 1600
(c) 1400 (d) 2000
19. The free capacity available in the A-B pipeline is;
- (a) 0 (b) 200
(c) 400 (d) 600
20. What is the free capacity available in the E-C pipeline ?
- (a) 600 (b) 400
(c) 200 (d) 0
21. In a certain code+ language, '617' means 'sweet and hot'; '735' means 'coffee is sweet' and '263' means 'tea is hot'. Which of the following would mean 'coffee is hot' ?
- (a) 731 (b) 536
(c) 367 (d) 753
22. A child can do a piece of work 15 hours slower than woman. The child works, for 18 hours on the job and then the women takes charge for 6 hours. In this manner, $\frac{3}{5}$ of the work can be completed. To complete the job now, how much time the women take ?
- (a) 24 hours (b) 18 hours
(c) 12 hours (d) 30 hours
23. Which two months in a year have the same calendar ?
- (a) June-October (b) April-November

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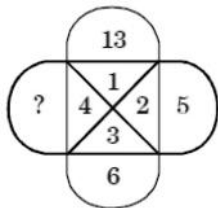
(c) April-July (d) October-December
Directions (24 - 25) : Find the missing number in each of the following questions.

24.



- (a) 13 (b) 14
 (c) 20 (d) 21

25.

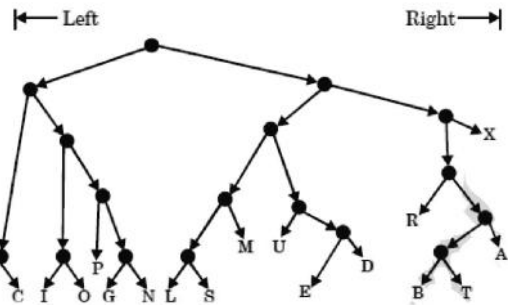


- (a) 10 (b) 11
 (c) 12 (d) 13

26. Find the word that names a necessary part of the underlined word.

- Gala
 (a) Celebration (b) Tuxedo
 (c) Appetizer (d) Orator

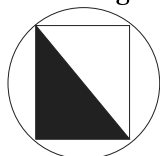
Directions (27 - 30) : Given below is a binary tree, where every letter has been coded with a string of digits 0 and 1. At any node going left is denoted by 1; at any node going right is denoted by 0. Thus N is denoted as : 10000. All the codes are in binary notation.



27. What will be the code for S;
 (a) 01011 (b) 01110
 (c) 01111 (d) none of these
28. Which letter is represented by 11001 ?
 (a) G (b) L
 (c) U (d) none of these
29. What is the value of C + R in binary notation ?
 (a) 11101 (b) 1101
 (c) 1001 (d) none of these
30. If all the codes are converted into decimal notation, then how many letters have their values greater than L ?
 (a) 1 (b) 2
 (c) 3 (d) none
31. Find the missing number in the following series:
 4, 6, 3, 5, 2, ?
 (a) 8 (b) 4
 (c) 3 (d) 6
32. A, B, C, D and E are five integers. When written in the ascending order of values, the difference between any two adjacent integers is 4. D is the greatest and A is the least. B is greater than E but less than C. The sum of the integers is equal to E. What is the product of integers ?
 (a) -945 (b) 945
 (c) 315 (d) 0
33. How many numbers between 1 to 1000 (both excluded) are both squares and cubes ?
 (a) none (b) 1
 (c) 2 (d) 3
34. If the direction North-East becomes South-East, how will other directions change ?
 (a) West to North (b) South to South-West
 (c) North-West to East (d) East to South-West

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48. If r is the radius of the circle given below, what is the area of the shaded region ?



- (a) $4r^2$ (b) r^2
 (c) $(4/3)r^2$ (d) $4r$
49. If $3/4$ of a number is equal to $2/3$ of another number, what is the ratio between these two numbers;
 (a) 3 : 4 (b) 5 : 6
 (c) 8 : 9 (d) 9 : 10
50. A one rupee coin is placed on a plain paper. How many coins of the same size can be placed round it so that each one touches the central and adjacent coins ?
 (a) 9 (b) 8
 (c) 4 (d) 6
51. Persons X, Y, Z and Q live in red, green, yellow or blue coloured houses placed in a sequence on a street. Z lives in a yellow house. The green house is adjacent to the blue house. X does not live adjacent to Z. The yellow house is in between the green and red house. The color of the house X lives in is;
 (a) Green (b) Blue
 (c) Red (d) can't be determined
52. A man starts walking towards south. After walking 5 km he again turns left at right angles in what direction is he finally walking in ?
 (a) North (b) South
 (c) East (d) West
53. A, B, C, D and E distribute some cards among themselves in a manner that A gets one less than B; C gets 5 more than D; E gets 3 more than B while D gets as many as B who gets the least cards?
 (a) A (b) C
 (c) D (d) E
54. What are X and Y ?
 S 8 W 16 A 5 C X A 4
 20 J 25 T 4 K 7 L Y N
 (a) X is 6, Y is 7 (b) X is 5, Y is 5
 (c) X is 4, Y is 6 (d) X is 16, Y is 23

55. Q is shorter than P, but taller than R, R is shorter than P but taller than A. If they stand in ascending order of their height the sequence is :
 (a) ARQP (b) AQPR
 (c) QPAR (d) RPQA

MATHEMATICS

56. The angle between the asymptotes of the hyperbola $27x^2 \times 9y^2 = 24$ is;
 (a) 60° (b) 120°
 (c) 30° (d) 150°
57. If any tangent to the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ intercepts equal length l on the axes, then $l =$
 (a) $a^2 + b^2$ (b) $\sqrt{a^2 + b^2}$
 (c) $(a^2 + b^2)$ (d) none of these
58. How many proper subset of $\{1, 2, 3, 4, 5, 6, 7\}$ contain the numbers 1 and 7 ?
 (a) 7 (b) 31
 (c) 32 (d) 62
59. The distance between the parallel lines $y=2x + 4$ and $6x = 3y + 5$;
 (a) $17 / \sqrt{3}$ (b) 1
 (c) $3 / \sqrt{5}$ (d) $17\sqrt{5} / 15$
60. The angle of intersection of the cardioids $r = a(1 + \cos \theta)$, $r = a(1 - \cos \theta)$ is;
 (a) $\pi / 2$ (b) 0
 (c) $\pi / 4$ (d) π
61. The circle $x^2 + y^2 = 9$ is contained in the circle $x^2 + y^2 - 6x - 8y + 25 = c^2$ if-
 (a) $c = 2$ (b) $c = 3$
 (c) $c = 5$ (d) $c = 10$
62. Identify the wrong statement from the following-
 (a) If A and B are two sets then $\overline{A \cup B} = \overline{A \cap B}$.
 (b) If A, B and C are sets, then $(A - B) - C = (A - C) - (B - C)$.
 (c) If A & B are two sets, then $\overline{A \cup B} = \overline{A \cap B}$.
 (d) If A, B & C are sets, then $A \cap B \cap \overline{C} \subseteq A \cap B$.
63. A person stands at a point A due south of a tower and observes its elevation is 60° . He then walks westwards towards B, where the elevation is 45° .

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- At a point C on AB produced, he finds it to be 30° . Then AB/BC is equal to;
- (a) $1/2$ (b) 1
(c) 2 (d) $5/2$
64. If $f(x) = \begin{cases} x \sin(1/x) & \text{for } x \neq 0 \\ 0 & \text{for } x = 0 \end{cases}$ then;
- (a) f is continuous function.
(b) $f'(0+)$ exists but $f'(0-)$ does not exist.
(c) $f'(0+) \neq f'(0-)$
(d) $f'(0+)$ and $f'(0-)$ do not exist.
65. If the two pairs of lines $X^2 - 2mXY - Y^2 = 0$ and $X^2 - 2nXY - Y^2 = 0$ are such that one of them represent the bisector of the angles between the other, then;
- (a) $mn + 1 = 0$ (b) $mn - 1 = 0$
(c) $\frac{1}{m} + \frac{1}{n} = 0$ (d) $\frac{1}{m} - \frac{1}{n} = 0$
66. A survey shows that 63% of the Americans like cheese where as 76% like apples. If x% of the Americans like both cheese and apples, then we have;
- (a) $x \geq 39$ (b) $x \leq 63$
(c) $39 \leq x \leq 63$ (d) none of these
67. The rate of increase of length of the shadow of a man 2 meters height, due to a lamp at 10 meters height, when he is moving away from it at the rate of 2 m/sec is;
- (a) $1/2$ m/sec (b) $2/5$ m/sec
(c) $1/3$ m/sec (d) 5 m/se
68. If the tangents at the extremities of a focal chord of the parabola $x^2 = 4ay$ meet the tangent at the vertex at points whose abscissa are x_1 and x_2 then $x_1 x_2 =$
- (a) a^2 (b) $a^2 - 1$
(c) $a^2 + 1$ (d) $-a^2$
69. The point (4, 1) undergoes the following three transformations successively :
- (i) reflection about the line $y = x$.
(ii) transformation through a distance 2 unit along the positive directions of x-axis.
(iii) rotation through an angle of $\pi/4$ about the origin in the anticlockwise direction. The final position of the point is given by the coordinates.
- (a) $\left(\frac{-1}{\sqrt{2}}, \frac{7}{\sqrt{2}}\right)$ (b) $\left(\frac{1}{\sqrt{2}}, \frac{7}{\sqrt{2}}\right)$
(c) $(-2, 7\sqrt{2})$ (d) $(\sqrt{2}, 7\sqrt{2})$
70. Set A has 3 elements and set B has 4 elements. The number of injection that can be defined from A to B is ;
- (a) 144 (b) 12
(c) 24 (d) 64
71. In a triangle ABC, R is circumradius and $8R^2 = a^2 + b^2 + c^2$. The triangle ABC is;
- (a) Acute angled (b) Obtuse angled
(c) Right angled (d) none of these
72. The value of the integral $\int_3^6 \frac{\sqrt{x}}{\sqrt{9-x} + \sqrt{x}} dx$ is;
- (a) 1 (b) $1/2$
(c) $3/2$ (d) 2
73. Let $\omega \neq 1$ be a cube root of unity and $i = \sqrt{-1}$. The value of the determinant
- $$\begin{vmatrix} 1 & 1+i+\omega^2 & \omega^2 \\ 1-i & -1 & \omega^2-1 \\ -i & -i+\omega-1 & -\omega^3 \end{vmatrix}$$
- is;
- (a) 0 (b) ω
(c) ω^2 (d) $1 + \omega^2$
74. If $(1+x)^n = a_0 + a_1x + a_2x^2 + \dots + a_nx^n$, then
- $$\left(1 + \frac{a_1}{a_0}\right) \left(1 + \frac{a_2}{a_1}\right) \left(1 + \frac{a_3}{a_2}\right) + \dots + \left(1 + \frac{a_n}{a_{n-1}}\right)$$
- is equal to;
- (a) $\frac{n^n}{n!}$ (b) $\frac{(n+1)^n}{n!}$
(c) $\frac{n^{n+1}}{(n+1)!}$ (d) $\frac{(n-1)^n}{n!}$
75. If $\sin^{-1} \frac{2a}{1+a^2} - \cos^{-1} \frac{1-b^2}{1+b^2} = \tan^{-1} \frac{2x}{1-x^2}$ then 'x' is equal to;
- (a) a (b) b

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- (c) $\frac{a+b}{a-ab}$ (d) $\frac{a-b}{1+ab}$
- 76.** The value of the integral $\int_0^{\pi/4} \frac{\sin x + \cos x}{2 + \sin 2x} dx$ is;
- (a) $\log 2$ (b) $\log 3$
(c) $\frac{1}{4} \log 3$ (d) $\frac{1}{8} \log 3$
- 77.** If $a \neq p, b \neq q, c \neq r$ and $\begin{bmatrix} p & b & c \\ a & q & c \\ a & b & r \end{bmatrix} = 0$ then the value of $\frac{p}{p-a} + \frac{q}{q-b} + \frac{r}{r-c}$ is;
- (a) 0 (b) 1
(c) -1 (d) 2
- 78.** India plays two matches each with West Indies and Australia. In any match the probabilities of India getting points 0, 1 and 2 are 0.45, 0.05 and 0.50 respectively. Assuming that the outcomes are independent, the probability of India getting at least 7 points is;
- (a) 0.8750 (b) 0.0875
(c) 0.0625 (d) 0.0250
- 79.** The value of $\sqrt{3} \cot 20^\circ - 4 \cos 20^\circ$ is;
- (a) 1 (b) -1
(c) 0 (d) none of these
- 80.** $\int \log_{10} x dx$ is;
- (a) $(x-1) \log_e x + c$ (b) $\log_e 10 \cdot x \log_e \left(\frac{x}{e}\right) + c$
(c) $\log_e 10 \cdot e \cdot x \log_e \left(\frac{x}{e}\right) + c$ (d) $\frac{1}{x} + c$
- 81.** If a, b, c are in A.P., p, q, r are in H.P. and ap, bq, cr are in G.P., then $\frac{p}{r} + \frac{r}{p}$ is equal to;
- (a) $\frac{a}{c} - \frac{c}{a}$ (b) $\frac{a}{c} + \frac{c}{a}$
(c) $\frac{b}{q} - \frac{a}{p}$ (d) $\frac{b}{q} + \frac{a}{p}$
- 82.** A coin is tossed three times. The probabilities of getting head and tail alternatively is;
- (a) $1/11$ (b) $2/3$
(c) $3/4$ (d) $1/4$
- 83.** If C is the middle point AB and P is any point outside AB , then;
- (a) $\overline{PA} + \overline{PB} = \overline{PC}$ (b) $\overline{PA} + \overline{PB} = 2\overline{PC}$
(c) $\overline{PA} + \overline{PB} + \overline{PC}$ (d) $\overline{PA} + \overline{PB} + 2\overline{PC} = \vec{O}$
- 84.** If $I_1 = \int_0^1 2x^2 dx, I_2 = \int_0^1 2x^3 dx, I_3 = \int_1^2 2x^2 dx$ and $I_4 = \int_2^1 2x^2 dx$ then;
- (a) $I_3 = I_4$ (b) $I_3 > I_4$
(c) $I_2 > I_1$ (d) $I_1 > I_2$
- 85.** If $y = a \log x + bx^2 + x$ has its extremum value at $x = -1$ and $x = 2$ then;
- (a) $a = 2, b = -1$ (b) $a = -2, b = 1/2$
(c) $a = 2, b = -1/2$ (d) $a = 1, b = -1/2$
- 86.** One hundred identical coins, each with probability p of showing up a head, are tossed. If $0 < p < 1$ and if the probability of heads on exactly 50 coins is equal to that of heads on exactly 51 coins then the value of p , is;
- (a) $1/2$ (b) $49/101$
(c) $50/101$ (d) $51/101$
- 87.** Let \vec{a}, \vec{b} and \vec{c} be three non zero vectors, no two of which are collinear and the vector $\vec{a} + \vec{b}$ is collinear with \vec{c} while $\vec{b} + \vec{c}$ is collinear with \vec{a} then $\vec{a} + \vec{b} + \vec{c}$ is equal to;
- (a) \vec{a} (b) \vec{b}
(c) \vec{c} (d) none of these
- 88.** The area between the curves $y = 2 - x^2$ and $y = x^2$ is;
- (a) $8/3$ (b) $4/3$
(c) $2/3$ (d) $5/3$
- 89.** The value of $X^4 + 9X^3 + 35X^2 - X + 4$ for $X = -5 + 2\sqrt{-4}$ is;
- (a) 0 (b) -160
(c) 160 (d) -164

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90. In a Poisson distribution if $P(x = 3) = \frac{1}{4}P[X = 4]$

then $P[X = 5] = kP[X = 7]$ where 'k' is equal to;

- (a) 1/7 (b) 21/128
(c) 128/21 (d) 21/256

91. The position vector of A, B, C and D are

$\hat{i} + \hat{j} + \hat{k}$, $2\hat{i} + 5\hat{j}$, $3\hat{i} + 2\hat{j} - 3\hat{k}$ and $\hat{i} - 6\hat{j} - \hat{k}$, then the angle between \overline{AB} and \overline{CD} is;

- (a) 0 (b) $\pi/4$
(c) $\pi/2$ (d) π

92. A vector \vec{a} has components $2p$ and 1 with respect to a rectangular Cartesian system. This system is rotated through a certain angle about the origin in the counterclockwise sense. If, with respect to the new system, \vec{a} has components $p + 1$ and 1 , then;

- (a) $p = 0$ (b) $p = 1$ or $p = 1/3$
(c) $p = -1$ or $p = 1/3$ (d) $p = 1$ or $p = -1$

93. The value of 'a' for which the system of equations

$$a^3x + (a+1)^3y + (a+2)^3z = 0$$

$$ax + (a+1)y + (a+2)z = 0$$

$$x + y + z = 0$$

has a non zero solutions, is;

- (a) 1 (b) 0
(c) -1 (d) none of these

94. The vectors \vec{a} , \vec{b} and \vec{c} are equal in length and taken pairwise make equal angles. If

$\vec{a} = \hat{i} + \hat{j}$, $\vec{b} = \hat{j} + \hat{k}$, and \vec{c} make an obtuse angle with the base vector 'I' then \vec{c} is equal to;

- (a) $\hat{i} + \hat{k}$ (b) $-\hat{i} + 4\hat{j} - \hat{k}$
(c) $-\frac{1}{3}\hat{i} + \frac{4}{3}\hat{j} - \frac{1}{3}\hat{k}$ (d) $\frac{1}{3}\hat{i} + \frac{4}{3}\hat{j} - \frac{1}{3}\hat{k}$

95. The average marks per student in a class of 30 students were 45. On rechecking it was found that marks had been entered wrongly in two cases. After correction these marks were increased by 24 and 34 in the two cases. The correct average marks per student are;

- (a) 75 (b) 60
(c) 56 (d) 47

ENGLISH

Directions (96 - 97) : Select the pair of words which are related in the same way as the capitalized words are related to each other.

96. MOTH : CLOTHING ::

- (a) egg : larva (b) hole : repair
(c) suit : dress (d) stigma : reputation

97. ASCETIC : LUXURY ::

- (a) philosopher : knowledge
(b) general : victory
(c) misogynist : women
(d) teacher : blackboard

98. In the question, the word "BUNDLE" is used in four different ways, numbered A to D. Choose the option in which the usage of the word is INAPPROPRIATE.

- (a) The newborn baby was a bundle of joy for the family
(b) Mobile operators are offering a bundle of additional benefits
(c) He made a bundle in the share market
(d) It was sheer luck that brought a bundle of boy-scouts to where I was lying wounded

99. Fill in the blank :

The sugar dissolved in water; finally all that remained was an almostresidue on the bottom of the glass.

- (a) Quicklylumpy
(b) Immediately...fragrant
(c) Gradually.....imperceptible
(d) Subsequentlyglassy

100. Following sentence has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are given four words or sets of words. Choose the word or set of words for each blank that best fits meaning of the sentence as a whole. His presentation was so lengthy and that it was difficult for us to find out the real in it.

- (a) verbose, content (b) tedious, skill
(c) laborious, coverage (d) simple, meaning

Directions (101 - 102) : Read the passage and select the most suitable answer to questions from the given choices. Observe the dilemma of the



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fungus: it is a plant, but it possesses no chlorophyll. While all other plants put the sun's energy to work for them combining the nutrients of ground and air into the body structure, the chlorophyllless must look elsewhere for energy supply. It finds it in those other plants which, having received their energy free from the sun, relinquish it at some point in their cycle either to animals (like us humans) or to the fungi.

In this search for energy the fungus has become the earth's major source of rot and decay. Wherever you see mold forming on a piece of bread, or a pile of leaves turning to compost, or a blown-down tree becoming pulp on the ground, you are watching a fungus eating. Without fungus action the earth would be piled high with the dead plant life of past centuries. In fact, certain plants which contain resins that are toxic to fungi will last indefinitely; specimens of the redwood, for instance, can still be found resting on the forest floor centuries after having been blown down.

- 101.** The passage states all the following about fungi EXCEPT :
- They are responsible for the decomposition of much plant life
 - They cannot live completely apart from other plants
 - They are vastly different from other plants
 - They are poisonous to resin-producing plants
- 102.** The passage is primarily concerned with;
- Warning people of the dangers of Fungi
 - Rot and decay of plants in nature
 - Describing the action of fungi
 - Relating how most plants use solar energy
- 103.** The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order to sentences from among the given choices to construct a coherent paragraph. P. Surrendered, or captured, combatants cannot be incarcerated in razor wire cages; this 'war' has a dubious legality

Q. How can then one characterize a conflict to be waged against a phenomenon as war ?

R. The phrase 'war against terror', which has passed into the common lexicon, is a huge misnomer.

S. Besides, war has a juridical meaning in international law, which has confided the laws of war, imbuing them with a humanitarian content.

T. Terror is phenomenon, not an entity-either State or non-State.

- (a) TRSQP (b) QTRSP
(c) TQRPS (d) RTQSP

- 104.** Find the synonym that is most nearly similar in meaning to the word CLANDESTINE
- abortive
 - secret
 - tangible
 - doomed
- 105.** There are four statements, of which one is incorrect. Choose the incorrect one.
- A hater of the institution of marriage is misogynist
 - The violation of sacred things is sacrilege
 - To prevaricate is to make evasive or misleading statements
 - A torpid person is generally hyperactive

Directions (106-107) : 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 from among the four.

- 106.** It was us who had left before he arrived.
- We who had left before time he had arrived
 - Us who has went before he arrived
 - Us who had went before he had arrived
 - We who had left before he arrived
- 107.** Many of these environmentalists proclaim to save nothing less than the planet itself.
- to save nothing lesser than
 - that they are saving nothing less than
 - that they save nothing less than
 - to have saved nothing less than
- 108.** Out of the four alternatives, choose the one which best expresses the meaning of the given word : CLEMENCY
- (a) Empathy (b) Kindness



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- (c) Sympathy (d) Forgiveness
- 109.** Choose the word that is opposite in meaning to the word COMPOSE
 (a) disturb (b) reveal
 (c) strengthen (d) isolate
- 110.** Choose the word opposite in meaning to the given word : FLAMBOYANT
 (a) Quiet (b) Excited
 (c) Disturbed (d) Distressed

COMPUTER AWARENESS

- 111.** Which of the following is NOT one of the four major data processing functions of a computer ?
 (a) gathering data
 (b) processing data into information
 (c) analyzing the data or information
 (d) storing the data or information
- 112.** If $(12x)3 = (123)x$ then the value of x is :
 (a) 1 (b) 2
 (c) Both (a) and (b) (d) none of above
- 113.** For a microprocessor using I/O mapped I/O
 (a) Memory and I/O addresses are distinct
 (b) Not all data transfer instructions are available for I/O
 (c) Both (A) and (B)
 (d) none of above
- 114.** Which gate is equivalent to (NOR) OR (XOR) ?
 (a) NAND gate (b) OR gate
 (c) AND gate (d) XOR gate
- 115.** Which one of the following is a stored program machine ?
 (a) Micro-processor (b) Caluculator
 (c) Analog computer (d) Micro computer
- 116.** Simplified form of a Boolean function $F(X, Y, Z) = \Sigma (0, 2, 4, 5, 6)$ is :
 (a) $\bar{Z}X + \bar{Y}$ (b) $\bar{Z} + X\bar{Y}$
 (c) $\bar{Y}Z + X\bar{Y}$ (d) none of these
- 117.** Execution of an operating system is initiated by a program called the
 (a) Window manager (b) Scheduler

- (c) Bootstrap (d) none of the above
- 118.** A CPU has a 12 bit address for memory addressing. If the memory has a total capacity of 16 KB, what is the word length of the memory ?
 (a) 2 bytes (b) 4 bytes
 (c) 8 bytes (d) 16 bytes
- 119.** Which of the following places the common data elements in order from smallest to largest ?
 (a) Field, record, character, database
 (b) Character, record, field, database
 (c) Character, field, record, database
 (d) Bit, byte, character, record, field, database
- 120.** A main memory has an access time of 45 ns. A 5 ns time gap is necessary for the completion of one access to beginning of next access. The bandwidth of the memory
 (a) 25 MHz (b) 20 MHz
 (c) 40 MHz (d) 50 MHz