



PCB

SCHOLARSHIP ADMISSION TEST



DURATION: 3 Hours

M.MARKS: 400

General Instructions:

1. Immediately fill in the particulars on this page of the test booklet.
2. The test is of 3 Hours duration.
3. The test booklet consists of 100 questions. The maximum marks are 400.
4. All questions are compulsory.
5. There is only one correct response for each question.
6. Each correct answer will give **4 marks** and -1 for any wrong answer.
7. No student is allowed to carry any textual material, printed, or written, bits of paper, pager, mobile phone, any electronic device, etc. inside the examination room/hall.
8. The keyboard will be disabled during the exam.
9. Candidate will have to answer using "mouse".
10. An automatic clock has been generated in the device. A designated time will be given to the candidates, where the time will be allotted for the login and log-out. When the clock reaches zero, the exams will stop automatically.

Name of the Student (In CAPITALS): _____

Date of exam - _____ Father name - _____

Class - _____ School Name - _____

_____ D.O.B. _____

9th class(%) / School topper _____

Present Address - _____

Centre name - _____

Contact number - _____ E-Mail ID - _____

PART - I (BIOLOGY)

SECTION – 1

- 0 This section contains **FIFTY** questions
0 Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four option is correct

1. Which of the following statements about the autotrophs is incorrect?
(a) They synthesise carbohydrates from carbon dioxide and water in the presence of sunlight and chlorophyll
(b) They store carbohydrates in the form of starch
(c) They convert carbon dioxide and water into carbohydrates in the absence of sunlight
(d) They constitute the first trophic level in food chains
2. In which of the following groups of organisms, food material is broken down outside the body and absorbed?
(a) Mushroom, green plants, Amoeba (b) Yeast, mushroom, bread mould
(c) Paramecium, Amoeba, Cuscuta (d) Cuscuta, lice, tapeworm
3. Select the correct statement
(a) Heterotrophs do not synthesise their own food
(b) Heterotrophs utilise solar energy for photosynthesis
(c) Heterotrophs synthesise their own food
(d) Heterotrophs are capable of converting carbon dioxide and water into carbohydrates
4. Which is the correct sequence of parts in human alimentary canal?
(a) Mouth → stomach → small intestine → oesophagus → large intestine
(b) Mouth → oesophagus → stomach → large intestine → small intestine
(c) Mouth → stomach → oesophagus → small intestine → large intestine
(d) Mouth → oesophagus → stomach → small intestine → large intestine
5. If salivary amylase is lacking in the saliva, which of the following events in the mouth cavity will be affected?
(a) Proteins breaking down into amino acids (b) Starch breaking down into sugars
(c) Fats breaking down into fatty acids and glycerol (d) Absorption of vitamins
6. The inner lining of stomach is protected by one of the following from hydrochloric acid. Choose the correct one
(a) Pepsin (b) Mucus (c) Salivary amylase (d) Bile
7. Which part of alimentary canal receives bile from the liver?
(a) Stomach (b) Small intestine (c) Large intestine (d) Oesophagus
8. A few drops of iodine solution were added to rice water. The solution turned blue-black in colour. This indicates that rice water contains
(a) complex proteins (b) simple proteins (c) fats (d) starch
9. In which part of the alimentary canal food is finally digested?
(a) Stomach (b) Mouth cavity (c) Large intestine (d) Small intestine
10. Choose the function of the pancreatic juice from the following
(a) trypsin digests proteins and lipase carbohydrates (b) trypsin digests emulsified fats and lipase proteins
(c) trypsin and lipase digest fats (d) trypsin digests proteins and lipase emulsified fats
11. When air is blown from mouth into a test-tube containing lime water, the lime water turned milky due to the presence of
(a) oxygen (b) carbon dioxide (c) nitrogen (d) water vapour
12. Which of the following statement(s) is (are) true about respiration?

During inhalation, ribs move inward and diaphragm is raised.

In the alveoli, exchange of gases takes place i.e., oxygen from alveolar air diffuses into blood and carbon dioxide from blood into alveolar air.

Haemoglobin has greater affinity for carbon dioxide than oxygen.

Alveoli increase surface area for exchange of gases.

- (a) (i) and (iv) (b) (ii) and (iii) (c) (i) and (iii) (d) (ii) and (iv)
13. Which is the correct sequence of air passage during inhalation?
 (a) Nostrils → larynx → pharynx → trachea → lungs
 (b) Nasal passage → trachea → pharynx → larynx → alveoli
 (c) larynx → nostrils → pharynx → lungs (d) Nostrils → pharynx → larynx → trachea → alveoli
14. During respiration exchange of gases take place in
 (a) trachea and larynx (b) alveoli of lungs
 (c) alveoli and throat (d) throat and larynx
15. Which of the following statement (s) is (are) true about heart?
 (i) Left atrium receives oxygenated blood from different parts of body while right atrium receives deoxygenated blood from lungs
 (ii) Left ventricle pumps oxygenated blood to different body parts while right ventricle pumps deoxygenated blood to lungs
 (iii) Left atrium transfers oxygenated blood to right ventricle which sends it to different body parts
 (iv) Right atrium receives deoxygenated blood from different parts of the body while left ventricle pumps oxygenated blood to different parts of the body
 (a) (i) (b) (ii) (c) (ii) and (iv) (d) (i) and (iii)
16. What prevents backflow of blood inside the heart during contraction?
 (a) Valves in heart (b) Thick muscular walls of ventricles
 (c) Thin walls of atria (d) All of the above
17. Single circulation i.e., blood flows through the heart only once during one cycle of passage through the body, is exhibited by
 (a) Labeo, Chameleon, Salamander (b) Hippocampus, Exocoetus, Anabas
 (c) Hyla, Rana, Draco (d) Whale, Dolphin, Turtle
18. In which of the following vertebrate group/groups, heart does not pump oxygenated blood to different parts of the body?
 (a) Pisces and amphibians (b) Amphibians and reptiles
 (c) Amphibians only (d) Pisces only
19. Choose the correct statement that describes arteries.
 (a) They have thick elastic walls, blood flows under high pressure; collect blood from different organs and bring it back to the heart
 (b) They have thin walls with valves inside, blood flows under low pressure and carry blood away from the heart to various organs of the body
 (c) They have thick elastic walls, blood flows under low pressure; carry blood from the heart to various organs of the body
 (d) They have thick elastic walls without valves inside, blood flows under high pressure and carry blood away from the heart to different parts of the body.
20. The filtration units of kidneys are called
 (a) ureter (b) urethra (c) neurons (d) nephrons
21. Oxygen liberated during photosynthesis comes from
 (a) water (b) chlorophyll (c) carbon dioxide (d) glucose
22. The blood leaving the tissues becomes richer in

- (a) carbon dioxide (b) water (c) haemoglobin (d) oxygen
23. Which of the following is an incorrect statement?
 (a) Organisms grow with time (b) Organisms must repair and maintain their structure
 (c) Movement of molecules does not take place among cells (d) Energy is essential for life processes
24. The internal (cellular) energy reserve in autotrophs is
 (a) glycogen (b) protein (c) starch (d) fatty acid
25. Which of the following equations is the summary of photosynthesis?
 (a) $6\text{CO}_2 + 12\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$ (b) $6\text{CO}_2 + \text{H}_2\text{O} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 + 6\text{H}_2\text{O}$
 (c) $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Chlorophyll} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$
 (d) $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Chlorophyll} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{CO}_2 + 6\text{H}_2\text{O}$
26. Choose the event that does not occur in photosynthesis
 (a) Absorption of light energy by chlorophyll (b) Reduction of carbon dioxide to carbohydrates
 (c) Oxidation of carbon to carbon dioxide (d) Conversion of light energy to chemical energy
27. The opening and closing of the stomatal pore depend upon
 (a) oxygen (b) temperature (c) water in guard cells (d) concentration of CO_2 in stomata
28. Choose the forms in which most plants absorb nitrogen
 (i) Proteins (ii) Nitrates and Nitrites (iii) Urea (iv) Atmospheric nitrogen
 (a) (i) and (ii) (b) (ii) and (iii) (c) (iii) and (iv) (d) (i) and (iv)
29. Which is the first enzyme to mix with food in the digestive tract?
 (a) Pepsin (b) Cellulase (c) Amylase (d) Trypsin
30. Which of the following statement(s) is (are) correct?
 (i) Pyruvate can be converted into ethanol and carbon dioxide by yeast.
 (ii) Fermentation takes place in aerobic bacteria.
 (iii) Fermentation takes place in mitochondria.
 (iv) Fermentation is a form of anaerobic respiration.
 (a) (i) and (iii) (b) (ii) and (iv) (c) (i) and (iv) (d) (ii) and (iii)
31. Lack of oxygen in muscles often leads to cramps among cricketers. This results due to
 (a) conversion of pyruvate to ethanol (b) conversion of pyruvate to glucose
 (c) non-conversion of glucose to pyruvate (d) conversion of pyruvate to lactic acid
32. Choose the correct path of urine in our body
 (a) kidney $\rightarrow$ ureter $\rightarrow$ urethra $\rightarrow$ urinary bladder (b) kidney $\rightarrow$ urinary bladder $\rightarrow$ urethra $\rightarrow$ ureter
 (c) kidney $\rightarrow$ ureters $\rightarrow$ urinary bladder $\rightarrow$ urethra (d) urinary bladder $\rightarrow$ kidney $\rightarrow$ ureter $\rightarrow$ urethra
33. During deficiency of oxygen in tissues of human beings, pyruvic acid is converted into lactic acid in the
 (a) cytoplasm (b) chloroplast (c) mitochondria (d) golgi body
34. Which of the following statements is correct about receptors?
 (a) Gustatory receptors detect taste while olfactory receptors detect smell
 (b) Both gustatory and olfactory receptors detect smell
 (c) Auditory receptors detect smell and olfactory receptors detect taste
 (d) Olfactory receptors detect taste and gustatory receptors smell
35. Electrical impulse travels in a neuron from
 (a) Dendrite $\rightarrow$ axon $\rightarrow$ axonal end $\rightarrow$ cell body (b) Cell body $\rightarrow$ dendrite $\rightarrow$ axon $\rightarrow$ axonal end
 (c) Dendrite $\rightarrow$ cell body $\rightarrow$ axon $\rightarrow$ axonal end (d) Axonal end $\rightarrow$ axon $\rightarrow$ cell body $\rightarrow$ dendrite
36. In a synapse, chemical signal is transmitted from
 (a) dendritic end of one neuron to axonal end of another neuron
 (b) axon to cell body of the same neuron
 (c) cell body to axonal end of the same neuron
 (d) axonal end of one neuron to dendritic end of another neuron

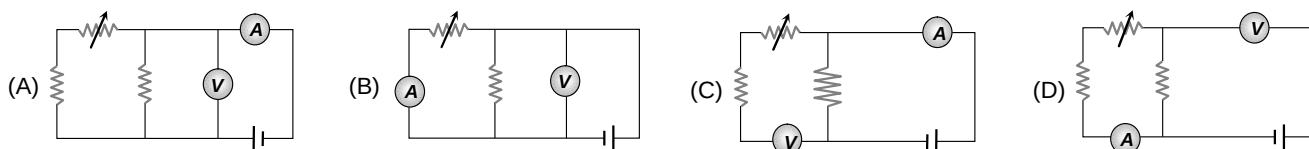
37. In a neuron, conversion of electrical signal to a chemical signal occurs at/in
 (a) cell body (b) axonal end (c) dendritic end (d) axon
38. Which is the correct sequence of the components of a reflex arc?
 (a) Receptors → Muscles → Sensory neuron → Motor neuron → Spinal cord
 (b) Receptors → Motor neuron → Spinal cord → Sensory neuron → Muscle
 (c) Receptors → Spinal cord → Sensory neuron → Motor neuron → Muscle
 (d) Receptors → Sensory neuron → Spinal cord → Motor neuron → Muscle
39. Which of the following statements are true?
 (i) Sudden action in response to something in the environment is called reflex action
 (ii) Sensory neurons carry signals from spinal cord to muscles
 (iii) Motor neurons carry signals from receptors to spinal cord
 (iv) The path through which signals are transmitted from a receptor to a muscle or a gland is called reflex arc
 (a) (i) and (ii) (b) (i) and (iii) (c) (i) and (iv) (d) (i), (ii) and (iii)
40. Which of the following statements are true about the brain?
 (i) The main thinking part of brain is hind brain.
 (ii) Centres of hearing, smell, memory, sight etc are located in fore brain.
 (iii) Involuntary actions like salivation, vomiting, blood pressure are controlled by the medulla in the hind brain.
 (iv) Cerebellum does not control posture and balance of the body.
 (a) (i) and (ii) (b) (i), (ii) and (iii) (c) (ii) and (iii) (d) (iii) and (iv)
41. Posture and balance of the body is controlled by
 (a) cerebrum (b) cerebellum (c) medulla (d) pons
42. Spinal cord originates from
 (a) cerebrum (b) medulla (c) pons (d) cerebellum
43. The movement of shoot towards light is
 (a) geotropism (b) hydrotropism (c) chemotropism (d) phototropism
44. The main function of abscisic acid in plants is to
 (a) increase the length of cells (b) promote cell division
 (c) inhibit growth (d) promote growth of stem
45. Which of the following is not associated with growth of plant?
 (a) Auxin (b) Gibberellin (c) Cytokinin (d) Absciscic acid
46. Iodine is necessary for the synthesis of which hormone?
 (a) Adrenaline (b) Thyroxin (c) Auxin (d) Insulin
47. Choose the incorrect statement about insulin.
 (a) It is produced from pancreas (b) It regulates growth and development of the body
 (c) It regulates blood sugar level (d) Insufficient secretion of insulin will cause diabetes
48. Select the mis-matched pair.
 (a) Adrenaline : Pituitary gland (b) Testosterone: Testes
 (c) Estrogen : Ovary (d) Thyroxin : Thyroid gland
49. The shape of guard cells changes due to change in the
 (a) protein composition of cells (b) temperature of cells
 (c) amount of water in cells (d) position of nucleus in the cells
50. The growth of tendrils in pea plants is due to
 (a) effect of light (b) effect of gravity
 (c) rapid cell divisions in tendrillar cells that are away from the support
 (d) rapid cell divisions in tendrillar cells in contact with the support

PART - II (PHYSICS)

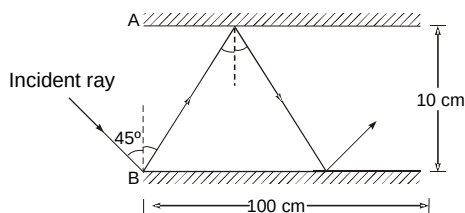
SECTION – 1

- 0 This section contains **FIFTEEN** questions
 0 Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four option is correct

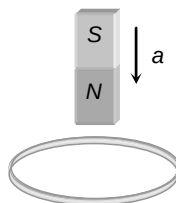
51. An institute uses 20 tubelights of 60 W each, 15 fans of 40 W each and 2 table lamps of 100 W each for 5 hours a day. How many units of electricity are used in the month of April ?
 (A) 250 kWh (B) 300 kWh (C) 200 kWh (D) 1000 kWh
52. Magnetic lines of force determines :
 (A) the shape of the magnetic field (B) only the direction of the magnetic field
 (C) only the relative strength of the magnetic field (D) both the direction and the relative strength of the magnetic field
53. Which of the following setups can be used to verify Ohm's law :



54. What will be the magnitude of e.m.f. induced in a 200 turns coil with cross section area 0.16 m^2 ? The magnetic field through the coil changes from 0.10 Wb m^{-2} to 0.30 Wb m^{-2} , at a uniform rate over a period of 0.05 s :
 (A) 128V (B) 130V (C) 118 V (D) 132V
55. Two parallel plane mirrors A and B are placed at a separation 10 cm as shown in figure. A ray incident on the corner of mirror B at an angle of incidence 45° . Find the number of times this rays is reflected from mirror A, before coming out of system of parallel mirrors :

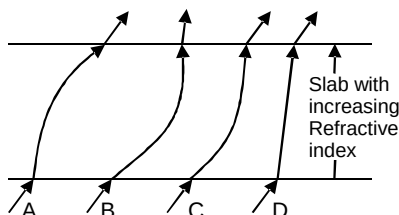


- (A) 4 (B) 5 (C) 6 (D) 7
56. A metallic ring is lying on the floor of a room. When the north pole of a magnet is brought near to it, the induced current in the ring with respect to the magnet will be :



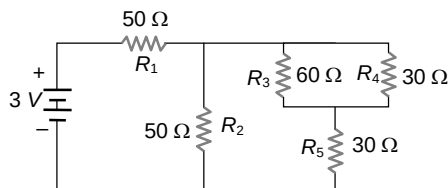
- (A) In anticlockwise direction (B) In clockwise direction
 (C) No current is induced in the ring (D) May be clockwise or anticlockwise

57. A ray of light enters a slab of material with increasing refractive index. Four possibilities of the trajectory of the ray are shown below.

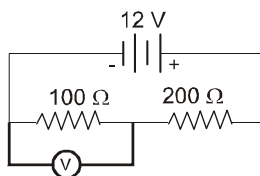


The correct choice is :

- (A) A (B) B (C) C (D) D
58. In circuit shown below, the resistances are given in ohms and the battery is assumed ideal with emf equal to 3 volt. The voltage across the resistance R_4 is :



- (A) 0.4 V (B) 0.6 V (C) 1.2 V (D) 1.5 V
59. The force between two charges 0.06 m apart is 5 N. If both charges are moved towards each other by 0.01 m, then the force between them will become :
- (A) 7.20 N (B) 11.25 N (C) 22.50 N (D) 45.00 N
60. An object of height 7.5 cm is placed in front of a convex mirror of radius of curvature 25 cm at a distance of 40 cm. The height of the image should be:
- (A) 2.3 cm (B) 3.40 cm (C) 1 cm (D) 0.8 cm
61. Two particles X and Y having equal charges, after being accelerated through the same potential difference, they enter in region having uniform magnetic field and moves in circular paths of radii R_1 and R_2 respectively. The ratio of the mass of X to that of Y is -
- (A) $(R_1/R_2)^{1/2}$ (B) R_1/R_2 (C) $(R_1/R_2)^2$ (D) $R_1 R_2$
62. The temperature coefficient of resistance for a wire is $0.00125 / ^\circ\text{C}$ at 0°C . At 300K its resistance is 1 ohm . The temperature at which the resistance becomes 2 ohm is. Assume Linear variation.
- (A) 1154 K (B) 1100 K (C) 1400 K (D) 1127 K
63. A rectangular block of glass of refractive index μ and thickness d is placed over an ink dot made on a piece of paper lying on a table. When viewed from above, the dot will appear to be raised by an amount given by :
- (A) $(\mu + 1) \frac{d}{\mu}$ (B) $(\mu - 1) \frac{d}{\mu}$ (C) $\frac{\mu d}{\mu + 1}$ (D) $\frac{\mu d}{\mu - 1}$
64. In the circuit shown in figure, the reading of the voltmeter V will be : (consider the voltmeter to be ideal)



- (A) 4 V (B) 2 V (C) 6 V (D) 3 V
65. Induced electromotive force in a coil does not depends on :
- (A) number of turns in the coil
(B) intensity of the magnetic field
(C) relative speed between coil and the magnet
(D) resistance of the coil

PART - III (CHEMISTRY)

SECTION - 1

- ø This section contains **FIFTEEN** questions
 ø Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four option is correct

66. A thermometer is inserted into a beaker filled with ice at 0°C . The beaker is heated slowly. The temperature does not rise for some time. This is because -
 (A) ice is very cold
 (B) heat was used for changing ice at 0°C to water at 0°C
 (C) the density of water is more than ice
 (D) the density of water is less than the ice
67. An isotone of $^{76}_{32}\text{Ge}$ is -
 (A) $^{77}_{32}\text{Ge}$ (B) $^{77}_{33}\text{As}$ (C) $^{77}_{34}\text{Se}$ (D) $^{79}_{34}\text{Se}$
68. Oxidation is a process which involves :
 (A) Addition of oxygen (B) Removal of hydrogen
 (C) Loss of electrons (D) All are correct
69. Which of the following carbon chains is different from the others ?
 (A) $\begin{array}{c} \text{C} - \text{C} - \text{C} - \text{C} \\ | \quad | \\ \text{C} \quad \text{C} - \text{C} \end{array}$ (B) $\begin{array}{c} \text{C} - \text{C} - \text{C} \\ | \quad | \\ \text{C} - \text{C} \quad \text{C} - \text{C} \end{array}$ (C) $\begin{array}{c} \text{C} - \text{C} \quad \text{C} \\ | \quad | \\ \text{C} - \text{C} - \text{C} - \text{C} \end{array}$ (D) $\begin{array}{c} \text{C} - \text{C} - \text{C} \\ | \\ \text{C} - \text{C} - \text{C} - \text{C} \end{array}$
70. In the equation $\text{NaOH} + \text{HNO}_3 \longrightarrow \text{NaNO}_3 + \text{H}_2\text{O}$ nitric acid is acting as -
 (A) an oxidising agent (B) an acid
 (C) a nitrating agent (D) a dehydrating agent
71. What is the decreasing order of reactivity of the following metals ?
 Na, Al, K, Cu, Ag, Fe
 (A) $\text{Na} > \text{K} > \text{Al} > \text{Cu} > \text{Ag} > \text{Fe}$ (B) $\text{K} > \text{Na} > \text{Al} > \text{Cu} > \text{Fe} > \text{Ag}$
 (C) $\text{K} > \text{Na} > \text{Al} > \text{Fe} > \text{Cu} > \text{Ag}$ (D) $\text{K} > \text{Na} > \text{Al} > \text{Fe} > \text{Ag} > \text{Cu}$
72. In the reaction $x\text{Pb}(\text{NO}_3)_2 \rightarrow y\text{PbO} + z\text{NO}_2 + \text{O}_2$ x, y and z are -
 (A) 1,1,2 (B) 2,2,4 (C) 1,2,4 (D) 4,2,2
73. A balanced chemical equation is in accordance with -
 (A) Avogadro's law (B) law of constant proportions
 (C) law of conservation of mass (D) law of gaseous volumes
74. Electrolysis of water is a decomposition reaction. The mole of hydrogen and oxygen gases liberated during electrolysis of water is:
 (A) 1 : 1 (B) 2 : 1 (C) 4 : 1 (D) 1 : 2
75. If pH of solution is 13, means that it is -
 (A) weakly acidic (B) weakly basic (C) strongly acidic (D) strongly basic
76. Which of the following statements is incorrect ?
 (A) An indicator is a substance that gives different colours in different media.
 (B) Litmus is soluble in ethanol.
 (C) Indicators are strong acids or strong bases.
 (D) Litmus is a vegetable extract that can be soaked into paper.

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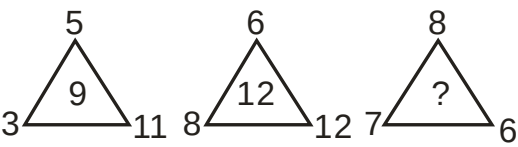
PART - IV (MENTAL ABILITY)

SECTION - 1

- 0 This section contains **TWENTY** questions
 0 Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four option is correct

Direction (81 to 83) Find the missing term.

81. 2, 6, 14, 26, ?
 (A) 92 (B) 54 (C) 44 (D) 42
82. LRX, DJP, VBH, NTZ, ?
 (A) ELS (B) FMR (C) GKS (D) FLR

83. 
 (A) 15 (B) 21 (C) 2 (D) 6

84. In a certain code **CONFUSED** is written as **EMNBFTV** how will you encode **SECLUDED** ?
 (A) MDFTCDCT (B) KBDRCDC (C) RDBKEFEV (D) KBDREFEV
85. Five boys Rakesh, Anil, Mahesh, Suresh and Manjit are sitting in a circle
 (I) Anil is sitting in between Rakesh and Suresh.
 (II) To Manjit's right Suresh is seated
 Who is seated to Mahesh's left ?
 (A) Anil (B) Suresh (C) Manjit (D) Rakesh

Directions (86) :

In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

86. Statements : All hill stations have a sun-set point. X is a hill station.
 Conclusions : I. X has a sun-set point.
 II. Places other than hill stations do not have sun-set points.
 (A) if only conclusion I follows (B) if only conclusion II follows
 (C) if neither conclusion I nor II follows (D) if both conclusions I and II follow

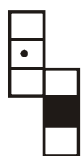
Directions (87) :

Read following information carefully and answer the question given below it :

- (i) A and B are good in Biology & Chemistry.
 (ii) A & C are good in Biology & Physics.
 (iii) C, D & E are good in Physics & History.
 (iv) C & E are good in Physics & Mathematics.
 (v) D & B are good in Chemistry & History.

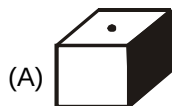
87. Who is good in Physics, History & Mathematics but not in Biology ?
 (A) D (B) C (C) A (D) E
88. Pankaj met his friend three days ago. He told his friend that he had his last exam five days later. He met his friend again, three days after the exam. 6 days after he met his friend after the exam they left for a vacation. The day on which they left for a vacation is Saturday. What is today ?
 (A) Tuesday (B) Monday (C) Saturday (D) Wednesday

89.



(X)

Choose from the alternatives, the boxes that will be formed when figure (X) is folded ?



(A)



(B)



(C)



(D)

90.

How many triangles are there in the figure below?



(A) 5

(B) 6

(C) 8

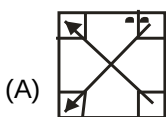
(D) 10

Directions : (91) In each of the following question, a figure marked (X) is followed by four figures (A), (B), (C) and (D) which show the possible water images of figure (X). Choose one out of these four figures which shows the correct water image of the figure (X).

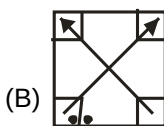


(X)

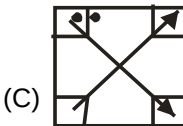
91.



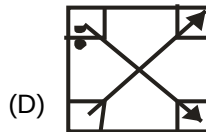
(A)



(B)



(C)



(D)

Directions : (92) A sheet has been folded in the manner as shown in X, Y and Z respectively and punched. You have to choose from the alternatives how it will look when unfolded.



X

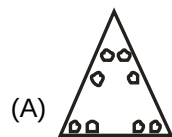


Y

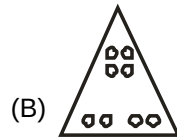


Z

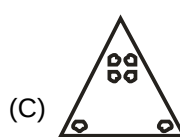
92.



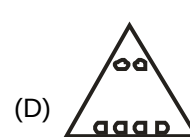
(A)



(B)



(C)



(D)

Directions : (93) Study the problem figures marked 1, 2, 3, 4 and 5 carefully and try to establish the relationship between them. From the answer figures marked A, B, C and D, pick out the figure which most appropriately completes the series.

93.



(1)

(2)

(3)

(4)

(5)



(A)



(B)

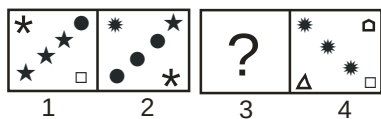


(C)

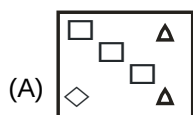


(D)

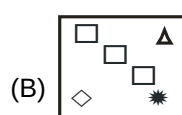
Directions : (94) The second figure in the first part of the problem figure bears a certain relationship to the first figure similarly one of the figure in answer figures bears the same relationship to the first figure in the second part. You have to select the figure from the set of answer figures which would replace the sign of questions mark.



94.



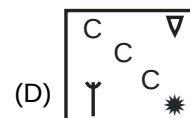
(A)



(B)



(C)



(D)

95. 1, 3, 7, 25, 103, ?

(A) 526

(B) 521

(C) 515

(D) 509

96. E16V, G8T, C12X, ?, U105F

(A) K30P

(B) J30P

(C) K6P

(D) none of these

97.

6	8	?
9	3	13
10	14	1

(A) 11

(B) 9

(C) 7

(D) 5

98. If **DANGER** is coded as **GENDAR** then **MOTION** will be coded as :

(A) IOTMON

(B) IOTMNO

(C) IONTON

(D) IOTMNO

Directions (99) : Study the given information carefully and answer the questions that follow :

Seven friends Kamla, Manish, Rohit, Amit, Gaurav, Pritam and Priya are sitting in a circle. Kamla, Manish, Rohit, Amit, Pritam and Priya are sitting at equal distances from each other.

Rohit is sitting three places right of Pritam, who is sitting one place right of Amit. Kamla forms an angle of 90 degrees from Gaurav and an angle of 120 degrees from Manish. Manish is just opposite Priya and is sitting on the left of Gaurav.

99. Who is the only person sitting between Rohit and Manish ?

(A) Pritam

(B) Amit

(C) Gaurav

(D) Kamla

Directions (100) : In the question below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

100. Statements : Some clothes are marbles. Some marbles are bags.

Conclusions : I. No cloth is a bag. II. All marbles are bags.

III. Some bags are clothes. IV. No marbles is a cloth.

(A) Only either I or IV follows

(B) Only either I or II follows

(C) None follows

(D) Only either I or III follows