



MSAT – 2026

(MAHARISHI SCHOLARSHIP CUM ADMISSION TEST)

For Students presently in Class – 07 (going to class – 8 in 2027) **SAMPLE PAPER**

Disclaimer: This is a sample paper provided for practice purposes only. The level of difficulty, type of questions, and total number of questions may vary in the actual examination.

General Instructions:

Time: 180 minutes

Maximum Marks: 270

- Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.
- Do not start filling the OMR sheet before the announcement from the invigilator.
- Do not keep the OMR sheet exposed to others.
- Shade the correct answers only in the OMR sheet given. Do not write or mark answers or symbols (Like ✓, •, X ...) anywhere in the questions paper.
- You are allowed to carry this Question Paper Booklet after the exam.
- Kindly ensure to submit your OMR answer sheet to the invigilator after the Exam.
- Use only blue or black ball point Pen or Pencil to fill all the information on the OMR sheet and for giving responses.
- Students need to write their registration number in the space provided for the same on the OMR.
- Any usage of Electronic gadgets like Mobile Phones, Calculator, Digital Watch etc....is strictly prohibited.
- Please find with the correct method of shading response in the OMR
- Multiple markings will be treated as invalid response.
- Do not fold the OMR sheet.
- This Question Paper booklet contains **5 Sections**.

Section	Subject	Question No.	Marking Scheme for each questions	
			Correct Answer	Wrong Answer
I	MENTAL ABILITY	1 to 30	+1	0
II	MATHS	1 to 35	+3	- 1
III	PHYSICS	1 to 15	+3	- 1
IV	CHEMISTRY	1 to 15	+3	- 1
V	BIOLOGY	1 to 15	+3	- 1

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Name of the Candidate : _____

Registration Number : _____

MAT**Section – I****Single Answer Questions**

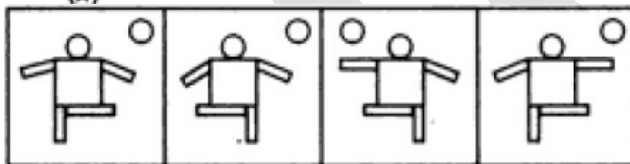
1. Choose the alternative which is closely resembles the mirror image of the given combination.

SUPERVISOR**(1) R0SIVR3PU2****(2) 2UB3RV120R****(3) R20UB3R3V1****(4) 2UB3RV120R****(A) 1****(B) 2****(C) 3****(D) 4**

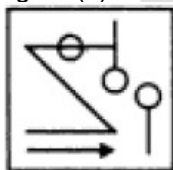
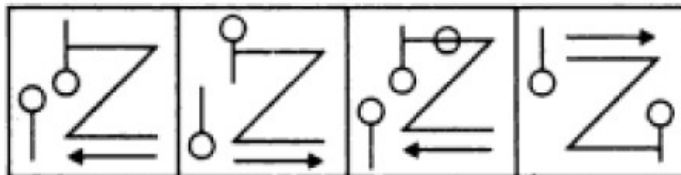
2. Choose the alternative which is closely resembles the mirror image of the given combination.

MAGAZINE**(1) MAGAZIN3****(2) 3N1ZAGAM****(3) MAGAZIN3****(4) MAGAZIN3****(A) 1****(B) 2****(C) 3****(D) 4**

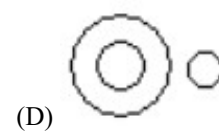
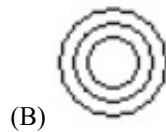
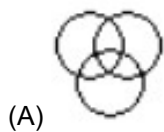
3. Choose the alternative from the given options, which most closely resembles the mirror-image of the given figure (x).

**(x)****(a)****(b)****(c)****(d)****(A) a****(B) b****(C) c****(D) d**

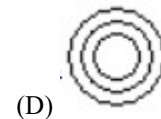
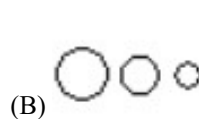
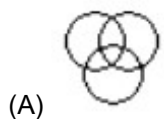
4. Choose the alternative from the given options, which most closely resembles the mirror-image of the given figure (x).

**(x)****(a)****(b)****(c)****(d)****(A) a****(B) b****(C) c****(D) d**

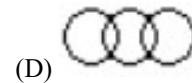
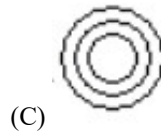
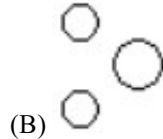
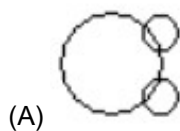
5. If a man on a bike starts from a point and rides 4 km South, then turns left and rides 2km to turn again to the right to ride 4km more, towards which direction is he moving?
 (A) East (B) South (C) West (D) North
6. Lakshman went 15 kms to the West of his house, then turned left and walked 20 kms. He then turned East and walked 25 kms and finally turning left covered 20 kms. How far was he from his house?
 (A) 5 kms (B) 10 kms (C) 40 kms (D) 80 kms
7. Cup is to coffee as bowl is to
 (A) Dish (B) Soup (C) Spoon (D) Food
8. Play is to actor as concert is to
 (A) Symphony (B) Musician (C) Piano (D) Percussion
9. Choose the option which does not belong with the others.
 (A) Tree (B) Paper (C) Mouse (D) Man
10. Choose the option which does not belong with the others.
 (A) Ear (B) Mouth (C) Chest (D) Nose
11. Which is the third number to the left of the number which is exactly in the middle of the following sequence of numbers ?
 1 2 3 4 5 6 7 8 9 2 4 6 8 9 7 5 3 1 9 8 7 6 5 4 3 2 1
 (A) 3 (B) 4 (C) 5 (D) 6
12. How many 3's are there in the following sequence which are preceded by 6 and immediately followed by 9 ?
 9 3 6 6 3 9 5 9 3 7 8 9 1 6 3 9 6 3 9
 (A) One (B) Two (C) Three (D) Four
13. In a certain code EDUCATIONAL is written as LEADNUOCIAT, How EXAMINATION is written in that code?
 (A) IMAXENNOITA (B) NEOXIATMAIN
 (C) NOITANIMAXE (D) FYBNJOBUIPO
14. In a certain coded language 'ACROBAT' is coded as 'ZXYLIZG'. How 'PROBLEM' will be coded?
 (A) KILYOVN (B) KIOYLVN (C) KILYONV (D) KIOYVLN
15. If sky is called sea, sea is called water, water is called air, air is called cloud and cloud is called river, then what do we drink when thirsty?
 (A) Sky (B) Air (C) Water (D) Sea
16. Which of the following diagrams indicates the best relation between Parents, Mother and Father?



17. Which of the following diagrams indicates the best relation between Men, Rodents and Living beings?



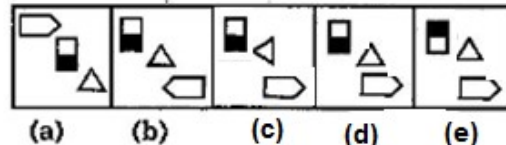
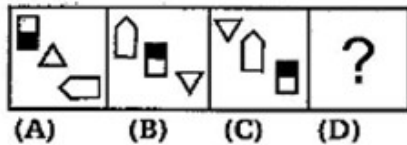
18. Which of the following diagrams indicates the best relation between Hockey, Football and Cricket ?



19. Find the next number in the series 41, 45, 53, 65, 81, ____
 (A) 99 (B) 101 (C) 102 (D) 89
20. Find the missing number in the series 30, 42, 56, 72, ____
 (A) 76 (B) 87 (C) 90 (D) 31
21. Find the missing number in the series ____, 85, 185, 235, 335
 (A) 25 (B) 20 (C) 35 (D) 10

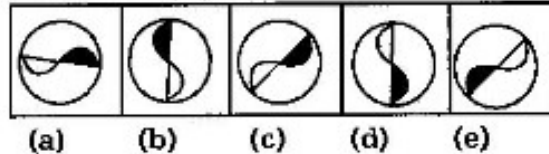
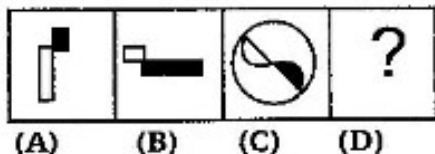
Directions (Q.No.22 – 24): Each of the following questions consists of two sets of figures. Figures A, B, C and D constitute the Problem Set while figures a, b, c, d and e constitute the Answer Set. There is a definite relationship between figures A and B. Establish a similar relationship between figures C and D by selecting a suitable figure from the answer set that would replace the question mark (?) in figure (D).

22.



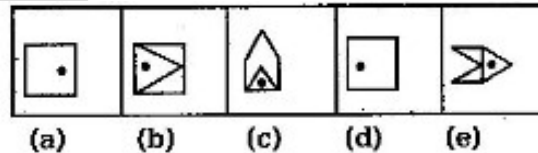
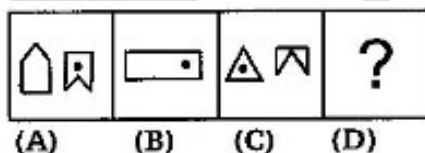
- (A) a (B) b (C) c (D) d

23.



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

24.



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

Direction (Q.No.25 – 27): Priya, Neha, Rashi, Sweety, Tanuja, Vijaya and Janny are sitting around a circle facing the centre. Sweety is the immediate neighbour of Vijaya. Rashi is third to the right of Janny and second to the left of Priya. Sweety is second to the right of Tanuja, who is second to the right of Neha.

25. What is Janny's position with respect to Priya?
 (A) Third to the right (B) Second to the left
 (C) Second to the right (D) Data inadequate
26. Who is to the immediate right of Neha?
 (A) Priya (B) Rashi (C) Vijaya (D) Data inadequate
27. Who among the following is sitting between Vijaya and Rashi?
 (A) Neha (B) Janny (C) Sweety (D) None of the above

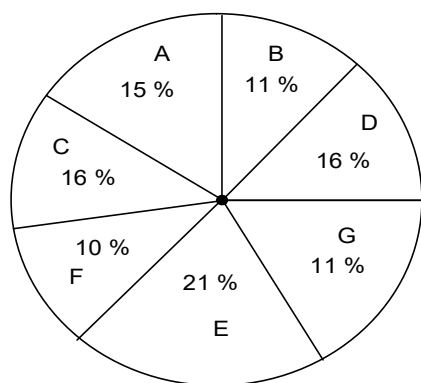
Directions (Q.No.28 – 30): Six friends Ashutosh, Brijesh, Chanakya, Debesh, Ekta and Falgun go to office by different vehicles- scooter, motorbike, bus, car, train and cab but not necessarily in the same order. Chanakya and Ekta neither take motorbike nor cab. Brijesh and Debesh neither take train nor scooter. Ashutosh and Falgun neither take bus nor cab. Debesh and Ekta neither take cab nor car. Debesh and Ashutosh go by bus and motorbike, but not necessarily in the same order. Ekta and Falgun don't go by train.

28. Ekta goes to office by-
(A) Scooter (B) Motorbike (C) Bus (D) Car
29. Who goes to office by car?
(A) Ashutosh (B) Brijesh (C) Chanakya (D) Falgun
30. Who goes by motorbike?
(A) Debesh (B) Ashutosh (C) Falgun (D) Brijesh

MATHS**Section – II****Single Answer Questions**

1. Find the value of $-25 + 14 \div (5 - 3)$
(A) 18 (B) 17 (C) -18 (D) -17
2. The difference of an integer x and (-6) is 4. Find the value of x
(A) 10 (B) -10 (C) 2 (D) -2
3. Ashish rode his bike $6\frac{1}{2}$ km in the morning and $8\frac{3}{4}$ km in the evening. Find the distance travelled by him altogether on that day
(A) $15\frac{1}{4}$ (B) $14\frac{1}{2}$ (C) $16\frac{1}{2}$ (D) $14\frac{1}{4}$
4. A car runs 16km using 1 litre petrol. How much distance will it cover using $2\frac{3}{4}$ litres of petrol?
(A) 40 km (B) 38 km (C) 42 km (D) 44 km
5. Find the value of x, where $3\frac{3}{4} + x = 4$
(A) $\frac{1}{4}$ (B) $\frac{2}{3}$ (C) $\frac{3}{8}$ (D) $\frac{5}{6}$
6. The range of the given data 5, 6, 7, 1, 5, 8, 9, 7, 7, 8, 10 is
(A) 7 (B) 8 (C) 9 (D) 10
7. Find the mode of a data if its median is 12 and mean is 16
(A) 4 (B) 8 (C) 6 (D) 12
8. Two dices are thrown simultaneously. What is the probability of getting two numbers whose product is even?
(A) $\frac{3}{4}$ (B) $\frac{1}{4}$ (C) $\frac{7}{4}$ (D) $\frac{1}{2}$

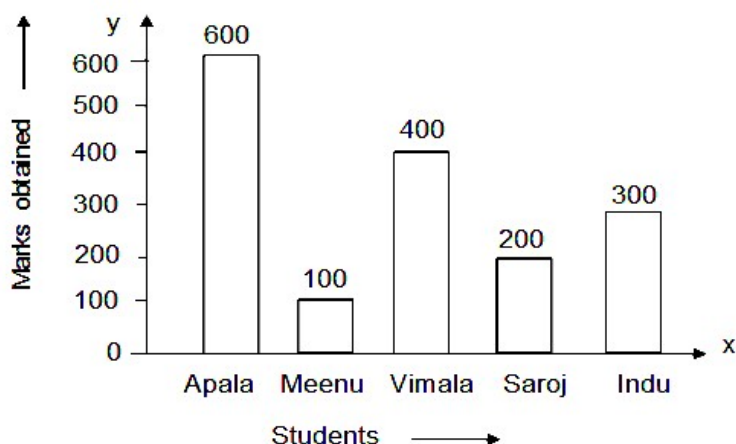
Directions (Q. No. 9 – 10) Following Pie – Chart shows the population of 7 Villages of a district. If the population of district is 120000



9. The difference of population of town B and E is
 (A) 12000 (B) 15000 (C) 80000 (D) 12500
10. The ratio of population of town A and F is
 (A) 3 : 5 (B) 1 : 3 (C) 3 : 2 (D) 2 : 3
11. If $\frac{4}{3}a + 3\frac{1}{2} - \frac{1}{2} = \frac{1}{4}a - \frac{1}{3}$, then the value of 'a' is _____
 (A) $-\frac{12}{39}$ (B) $-\frac{40}{13}$ (C) $-\frac{12}{41}$ (D) $-\frac{38}{13}$
12. If $\frac{x}{2+x} = \frac{1}{2}$, then the value of 'x' is _____
 (A) 2 (B) -2 (C) 11 (D) -1
13. Find the value of 'x' if $\frac{17(2-x) - 5(x+12)}{1-7x} = 8$
 (A) 3 (B) 3 (C) 4 (D) 1
14. Two numbers are such that the ratio between them is 3 : 5. If each one of them is increased by 10, the ratio becomes 5 : 7. Find the original numbers?
 (A) 15 and 20 (B) 20 and 25 (C) 15 and 25 (D) 10 and 15
15. The perimeter of a rectangle is 240cm. If it's length decreased by 10% and breadth is increased by 20%, we get the same perimeter. Find the length of the rectangle
 (A) 70 (B) 80 (C) 90 (D) 100
16. What is the multiplicative inverse of $\left(1\frac{1}{2} + 2\frac{5}{6}\right)$
 (A) $\frac{8}{13}$ (B) $\frac{7}{13}$ (C) $\frac{3}{13}$ (D) $\frac{13}{6}$
17. If $x = (-1)^{2025}$, $y = (-1)^{2026}$, $z = (-1)^{2027}$ then what is the value of $\left(\frac{x+y}{z}\right)$?
 (A) 0 (B) 1 (C) -1 (D) 2

18. If one third of a number is subtracted from 12, then the resultant is 8. Find the number
(A) 10 (B) 11 (C) 12 (D) 13
19. What is the value of $\frac{1}{7}$ of $\frac{1}{4}$ of $\frac{8}{9}$
(A) $\frac{3}{62}$ (B) $\frac{2}{63}$ (C) $\frac{6}{23}$ (D) $\frac{3}{26}$
20. Amit plants 4 trees in a row in his garden. The distance between two adjacent trees is $\frac{3}{4}m$. What is the distance between first and last tree?
(A) 3 m (B) 4m (C) $\frac{9}{4}$ (D) $\frac{16}{3}m$
21. Decimal representation of an irrational number is
(A) Repeating and terminating decimal (B) Non repeating and terminating decimal
(C) Repeating and non terminating decimal (D) Non repeating and non terminating decimal
22. The mean of 4,6,8 and P is 10, then P = _____
(A) 12 (B) 22 (C) 32 (D) 16
23. Range of first 'n' natural number is _____
(A) $\frac{n}{2}$ (B) $\frac{n-1}{2}$ (C) $n-1$ (D) $2n+1$
24. There are 101 observations in a data which are arranged in decending order, then the median is _____ observation
(A) 49th (B) 50th (C) 51st (D) 52nd
25. Pictorial representation of data using symbols is known as
(A) Bargraph (B) Pictograph (C) Piechart (D) None of these
26. If $43m = 0.086$, then the value of m is
(A) 0.002 (B) 0.02 (C) 0.2 (D) 2
27. Indian cricket team won 4 more matches than it lost with New Zealand, if it won $\frac{3}{5}$ of its matches.then how many matches did India play
(A) 8 (B) 12 (C) 16 (D) 20
28. Fractions with different denominators are called _____ fractions
(A) Like (B) Unlike (C) Both A & B (D) None
29. In a hostel mess, 50 kg rice are consumed every day. If each student gets 400 gm of rice per day, find the number of students who take meals in the hostel mess
(A) 120 (B) 115 (C) 135 (D) 125
30. If $\frac{6y^2 + 13y - 4}{2y + 5} = \frac{12y^2 + 5y - 2}{4y + 3}$, then the value of 'Y' is _____
(A) 1 (B) 2 (C) 3 (D) 4
31. If $0.3x + 0.4 = 0.2x + 0.9$, then the value of 'x' is _____
(A) -5 (B) -4 (C) 4 (D) 5

Directions (Q.No.32 – 33) Read the following bar graph and answer the following related questions



32. The difference between the maximum and minimum marks is
 (A) 100 (B) 200 (C) 400 (D) 500
33. The ratio of marks obtained by Meenu and Indu is
 (A) 1 : 3 (B) 2 : 3 (C) 3 : 4 (D) 1 : 6
34. A bag contains 3 red and 5 black. A ball is drawn at random from the bag. What is the probability that the ball drawn is black
 (A) $\frac{3}{6}$ (B) $\frac{5}{8}$ (C) $\frac{1}{6}$ (D) $\frac{3}{8}$
35. The value of $\left(1 + \frac{1}{2}\right)\left(1 + \frac{1}{3}\right)\left(1 + \frac{1}{4}\right) \dots \left(1 + \frac{1}{120}\right)$ is
 (A) 30 (B) 40.5 (C) 60.5 (D) 121.5

PHYSICS

Section – III

Single Answer Questions

1. The circulation of water in car radiator takes place due to
 (A) Conduction (B) Convection (C) Radiation (D) Expansion
2. Rise in temperature by 1°C is equal to
 (A) Rise in temperature by 32°F (B) Rise in temperature by 1 K
 (C) Rise in temperature by 273 K (D) None of these
3. When heat energy is incident on a body, then
 (A) it is reflected (B) it is absorbed
 (C) it is transmitted through it (D) All the above
4. Which of the following process of heat transfer does not require medium?
 (A) Conduction (B) Convection (C) Radiation (D) Both (B) & (C)
5. Relation between Celsius (C) and Kelvin (K)?
 (A) $C = K - 273.15$ (B) $C = K + 273.15$ (C) $C = 273.15 - K$ (D) $K = 273.15 - C$

6. Relation between Celsius (C) and Fahrenheit (F)?
(A) $\frac{C}{180} = \frac{F-32}{100}$ (B) $\frac{C}{180} = \frac{F+32}{100}$ (C) $\frac{C}{100} = \frac{F-32}{180}$ (D) $\frac{C}{100} = \frac{F+32}{180}$
7. When heat is transferred from one body to another by direct contact, it is called
(A) Convection (B) Radiation (C) Conduction (D) Insulation
8. Heat always flows from
(A) Cold body to hot body (B) Hot body to cold body
(C) Solid to liquid (D) Liquid to gas
9. The boiling point of water at sea level is
(A) 90°C (B) 100°C (C) 110°C (D) 212°C
10. The SI unit of temperature is
(A) Celsius (B) Fahrenheit (C) Kelvin (D) Joule
11. Expansion of materials on heating is due to
(A) Increase in atoms (B) Increase in space between atoms
(C) Decrease in density (D) Compression
12. If we denote speed by S, the distance by D and time by T, The relationship between these quantities is
(A) $S = D \times T$ (B) $T = S / D$ (C) $S = D / T$ (D) $S = T / D$
13. A bus travels 54km in 90 minutes. The speed of the bus is
(A) 0.6 m/s (B) 10 m/s (C) 5.4 m/s (D) 3.6 m/s
14. Arun walks to his school, which is at a distance of 3km from his home in 30 minutes. On reaching, he finds that the school is closed and comes back by bicycle with his friend and reaches home in 20 minutes. His average speed in km/h is
(A) 8.3 (B) 7.2 (C) 5 (D) 3.6
15. Clinical thermometer can be used to measure the temperature of
(A) Boiling water (B) Ice (C) Human body (D) All of the above

CHEMISTRY**Section – IV****Single Answer Questions**

1. Which of the following is a physical change?
(A) Rusting of iron (B) Burning of Paper (C) Melting of ice (D) Cooking of rice
2. Which of these is a chemical change?
(A) Dissolving sugar in water (B) Evaporation of water
(C) Condensation of steam (D) Burning of a candle
3. Which natural acid is present in lemon?
(A) Acetic acid (B) Citric acid (C) Oxalic acid (D) Lactic acid
4. Which of these is a basic substance?
(A) Vinegar (B) Lemon juice (C) Baking soda solution (D) Tomato juice
5. Which indicator turns red in an acidic solution?
(A) Turmeric (B) Litmus (C) Phenolphthalein (D) Soap solution

6. Which of the following is used to treat indigestion caused by excess acid in the stomach?
(A) Hydrochloric acid (B) Baking Soda (C) Vinegar (D) Lemon juice
7. Formation of crystals of copper sulphate from its solution is an example of
(A) Physical change (B) Chemical change
(C) Both physical and chemical change (D) No change
8. Which of the following reactions is a neutralisation reaction?
(A) $HCl + NaOH \rightarrow NaCl + H_2O$ (B) $2Mg + O_2 \rightarrow 2MgO$
(C) $Fe + CuSO_4 \rightarrow FeSO_4 + Cu$ (D) $CaCO_3 \rightarrow CaO + CO_2$
9. When iron nails are kept in copper sulphate solution, the solution turns green. This shows
(A) Physical change (B) Double displacement reaction
(C) Displacement reaction (D) Neutralisation
10. Which of these shows a chemical change due to heat?
(A) Ice $\rightarrow$ Water (B) Milk $\rightarrow$ Curd
(C) Paper $\rightarrow$ Ash (D) Salt $\rightarrow$ Dissolved in water
11. A factory disposes its acidic waste into a river. Which substance should be added to reduce harm to aquatic life?
(A) Common salt (B) Washing soda
(C) Vinegar (D) Lemon juice
12. A student adds dilute HCl to zinc granules. Which gas is evolved?
(A) Oxygen (B) Hydrogen (C) Nitrogen (D) Carbon dioxide
13. Which among the following correctly differentiates a physical and chemical change?
(A) Physical change makes new substances, chemical does not
(B) Chemical change is always reversible, physical is irreversible
(C) Chemical change forms a new substance, physical does not
(D) Both are the same
14. Which of the following pairs is correctly matched?
(A) Acetic acid – Soap making
(B) Hydrochloric acid – Used in digestion in stomach
(C) Citric acid – Used in plaster of paris
(D) Sodium hydroxide – Present in tamarind
15. During rusting of iron, which combination of conditions is necessary?
(A) Oxygen and air (B) Water and sunlight
(C) Oxygen and water (D) Carbon dioxide and water

BIOLOGY**Section – V****Single Answer Questions**

1. Organisms that obtain their food from dead and decaying organic matter are called
(A) Saprophytes (B) Heterotrophs (C) Autotrophs (D) Parasites
2. The mineral required by the plants for the formation of chlorophyll
(A) Nitrogen (B) Manganese (C) Magnesium (D) Calcium

3. The tiny pores on the leaf surface are guarded by
(A) Epidermal cells (B) Lenticles (C) Guard Cells (D) Periderm
4. The light energy of sun is converted into chemical energy through
(A) Respiration (B) Transpiration (C) Photosynthesis (D) Digestion
5. The dark reaction of photosynthesis occurs in
(A) Grama (B) Thylakoids (C) Stroma (D) Lamella
6. Translocation of sugar in Angiosperms occurs in the form of
(A) glucose (B) Sucrose (C) Lactose (D) Starch
7. The oxygen a by product of Photosynthesis is relased from
(A) CO_2 (B) H_2O (C) $C_6H_{12}O_6$ (D) None of these
8. Identify the plant which do not perform photosynthesis?
(A) Algae (B) Pitcher plant (C) Cuscuta (D) Bryophyllum
9. Light reaction of photosynthesis results in the formation of
(A) ATP (B) O_2 (C) $NADPH + H^+$ (D) All of these
10. Human buccal cavity opens into
(A) Salivary gland (B) Oesophagus (C) Pharynx (D) Stomach
11. The duct which opens into duodenum
(A) Gastric duct (B) Bile duct (C) Pancreatic duct (D) Both B and C
12. During digestion pepsin is active in
(A) Basic medium (B) Acidic medium (C) Neutral medium (D) All type of medium
13. Bile salts involves in
(A) Carbohydrate digestion (B) Protein breakdown
(C) Breakdown of fats (D) Absorption of glycerol
14. In humans, the step digestion is
(A) Intercellular (B) Extracellular (C) Intracellular (D) Both A and B
15. Glucose is stored in liver as
(A) Sucrose (B) Cellulose (C) Starch (D) Glycogen

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Answer key – Class - 07**MAT**

1.A	2.D	3.D	4.C	5.B
6.B	7.B	8.B	9.B	10.C
11.B	12.C	13.B	14.B	15.B
16.C	17.C	18.B	19.B	20.C
21.C	22.D	23.D	24.D	25.C
26.A	27.D	28.A	29.D	30.B

MATHS

1.C	2.D	3.A	4.D	5.A
6.C	7.A	8.A	9.A	10.C
11.B	12.A	13.D	14.C	15.B
16.C	17.A	18.C	19.B	20.C
21.D	22.B	23.C	24.C	25.B
26.A	27.D	28.B	29.D	30.A
31.D	32.D	33.A	34.B	35.C

PHYSICS

1.B	2.B	3.D	4.C	5.A
6.C	7.C	8.B	9.B	10.C
11.B	12.C	13.B	14.B	15.C

CHEMISTRY

1.C	2.D	3.B	4.C	5.B
6.B	7.A	8.A	9.C	10.C
11.B	12.B	13.C	14.B	15.C

BIOLOGY

1.A	2.C	3.C	4.C	5.C
6.B	7.B	8.C	9.D	10.C
11.D	12.B	13.C	14.B	15.D