



MSAT – 2026

(MAHARISHI SCHOLARSHIP CUM ADMISSION TEST)

For Students presently in Class – 08
(going to class – 9 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: 250

- 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.
- Multiple markings will be treated as invalid response.
- Do not fold the OMR sheet.
- This Question Paper booklet contains **5 Sections**.

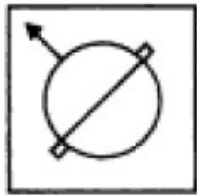
Section	Subject	Question No.	Marking Scheme for each questions	
			Correct Answer	Wrong Answer
I	MENTAL ABILITY	1 to 25	+1	0
II	MATHS	1 to 30	+3	- 1
III	PHYSICS	1 to 15	+3	- 1
IV	CHEMISTRY	1 to 15	+3	- 1
V	BIOLOGY	1 to 15	+3	- 1

Name of the Candidate : _____

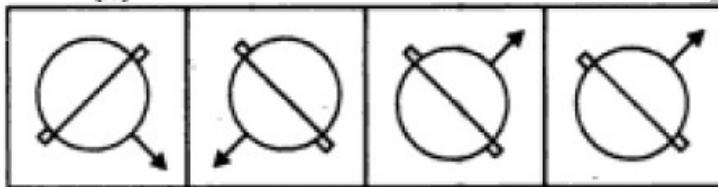
Registration Number : _____

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

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



(x)



(a)

(b)

(c)

(d)

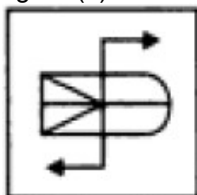
(A) a

(B) b

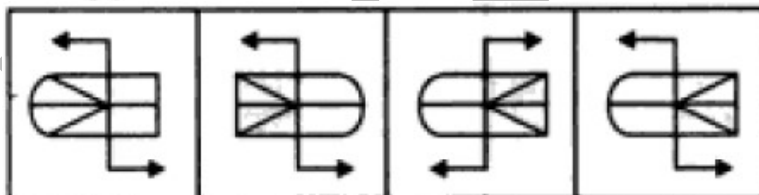
(C) c

(D) d

2. 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

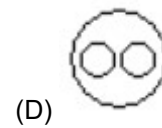
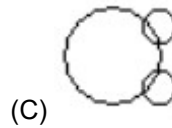
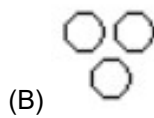
(B) b

(C) c

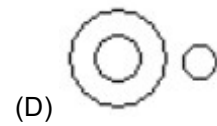
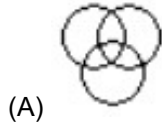
(D) d

3. Murari walked 40 m towards North, took a left turn and walked 20 m .He again took a left turn and walked for 40 km.How far and in which direction is he from the starting point?
(A) 20 m West (B) 20 m South (C) 20 m East (D) 20 m North
4. Arjun walked 30 m towards East, took a right turn and walked 40 m .Then he took a left turn and walked 30 m In which direction is he now from the starting point?
(A) South – East (B) South (C) North – East (D) East

5. Which of the following diagrams indicates the best relation between Pigeon, Bird and Dog?



6. Which of the following diagrams indicates the best relation between Teacher, Writer and Musician?



7. Find the appropriate word that fit in the place of question mark, Import : Export : : Expenditure : ?
 (A) Deficit (B) Revenue (C) Debt (D) Tax
8. In a certain code 'BANGLE' is coded as 'ABMHKF'. What is the decode for the code 'NECKLACE'?
 (A) MFBKLBAF (B) MFBLKBBF (C) ODDJMZDD (D) OCDJMZDF
9. In a certain code language 'nik ka pa' means 'who are you', 'ka na ta da' means 'you may come here' and 'ho ta sa' means 'come and go'. What does 'nik' means in that code language.
 (A) Who (B) Who or Are (C) Data inadequate (D) None of these
10. In a certain code VOWEL is written as ELDVO, How CONSONANT is written in that code?
 (A) NOCSONTNA (B) NANTOCOSU (C) XLMTPOBOU (D) XLMHLMZMG
11. A is the son of B while B and C are sisters to one another. E is the mother of C. If D is the son of E, which of the following statement is correct.
 (A) E is the brother of B (B) D is the cousin of A
 (C) B and D are sisters (D) D is the maternal uncle of A
12. If 'A \$ B' means 'A is father of B', 'A # B' means 'A is daughter of B', 'A @ B' means 'A is sister of B', then how is K related to M in H@K\$L#M.
 (A) Husband (B) Uncle
 (C) Father (D) Cannot be determined
13. Looking at a portrait of man, Harsh said, "His mother is the wife of my father's son. Brothers and sisters I have none." At whose portrait was Harsh looking?
 (A) His uncle (B) His son (C) His nephew (D) His cousin
14. Find the missing number in the series 113, 225, 449, _____, 1793
 (A) 789 (B) 786 (C) 897 (D) 987
15. Find the missing number in the series 15, 27, 51,, 195
 (A) 99 (B) 100 (C) 97 (D) 95
16. Find the missing number in the series 7200, 3600, 1200,, 60, 10
 (A) 200 (B) 250 (C) 350 (D) 300

Directions : (Q.No.17 – 19): In each problem, out of the five figures marked (1), (2), (3), (4) and (5), four are similar in a certain manner. However, one figure is not like the other four. Choose the figure which is different from the rest.

17.



- (1) (2) (3) (4) (5)
 (A) 1 (B) 2 (C) 3 (D) None of the above

18.



- (1) (2) (3) (4) (5)
 (A) 1 (B) 2 (C) 3 (D) None of the above

19.



- (1) (2) (3) (4) (5)
 (A) 1 (B) 2 (C) 3 (D) None of the above

Direction (Q.No.20 – 22): Five towns—Kolkata, Chandigarh, Hyderabad, Agra, and Mumbai—which are covered by the same newspaper, all have excellent cricket teams. The teams are named the Royals, the Lions, the Kings, the Devils, and the Bulls. The sports reporter, who has just started at the newspaper, has to be careful not to get them confused. Here is what she knows:

- i. The team in Kolkata has beaten the Kings, Royals, and Devils.
- ii. The Lions have beaten the teams in Mumbai, Hyderabad, and Kolkata.
- iii. The Kings are in Chandigarh.
- iv. The team in Hyderabad is not the Devils.

20. Where are the Lions?
 (A) Kolkata (B) Hyderabad (C) Agra (D) Mumbai
21. Where are the Royals?
 (A) Mumbai (B) Kolkata (C) Chandigarh (D) Hyderabad
22. What team is in Kolkata?
 (A) Royals (B) Bulls (C) Lions (D) Kings

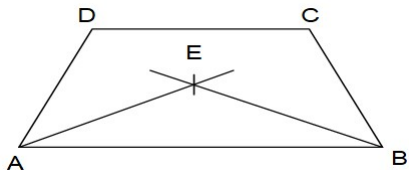
Direction (Q.No.23 – 25) In each question given below are Statements followed by conclusions numbered. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which of the given conclusions logically follows from the given Statements, disregarding commonly known facts.

23. **Statement:** I. Some books are copies
II. All copies are green
III. Some green are yellow
- Conclusions:** I. All copies are yellow
II. Some yellow are green
III. Some copies are yellow
IV. All green are copies
- (A) Only II follows (B) Either III or IV only
(C) Either II or IV only (D) All of these
24. **Statement:** I. All jugs are glasses
II. All glasses are cups
III. All jugs are pens
- Conclusions:** I. All pens are jugs
II. Some glasses are pens
III. Some cups are pens
IV. All pens are cups
- (A) None follows (B) Only II follows
(C) II and III Only (D) III and IV only
25. **Statement:** I. All teachers are doctors
II. All doctors are engineers
III. All engineers are typists
- Conclusions:** I. Some typists are teachers
II. All doctors are typists
III. Some engineers are teachers
IV. All doctors are teachers
- (A) Only I and II follow (B) Only I and III follow
(C) Either II or IV follows (D) None of these

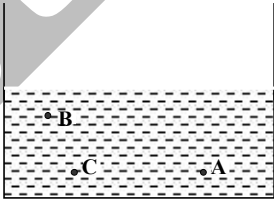
MATHS**Section – II****Single Answer Questions**

1. Given $a = 2^{2025}$ and $b = 5^{2025}$, then sum of the digits of $(a+b)^2 - (a-b)^2$ is _____
(A) 1 (B) 2 (C) 3 (D) 4
2. Find the sum of squares of the digits of the least positive integers having 5 positive divisors?
(A) 56 (B) 37 (C) 38 (D) 39
3. What is the largest prime p that makes $\sqrt{17p+625}$ an integer?
(A) 3 (B) 67 (C) 101 (D) 151
4. What is the largest positive integer n such that $2^n + 65$ is equal to square of an integer?
(A) 8 (B) 5 (C) 10 (D) 11
5. For what value of n , $10 \times 2^n + 10 \times 3^n + 10 \times 5^n$ is a perfect square? (n is least integer)
(A) 9 (B) 5 (C) 3 (D) 1

6. What is the sum of the digits of the smallest prime that can be written as a sum of 5 distinct primes?
(A) 7 (B) 5 (C) 4 (D) 3
7. The reciprocal of $\frac{2}{5} \times \frac{5}{9}$ is _____
(A) $\frac{9}{5}$ (B) $\frac{9}{25}$ (C) 9 (D) $\frac{9}{2}$
8. Which of the following is a rational number between $\frac{2}{3}$ and $\frac{4}{5}$?
(A) $\frac{1}{3}$ (B) 2 (C) $\frac{41}{60}$ (D) None
9. $0.\overline{27}$ equals to _____
(A) $\frac{3}{11}$ (B) $\frac{9}{10}$ (C) $\frac{3}{91}$ (D) $\frac{3}{10}$
10. Find the value of $\frac{2}{3} + \left(\frac{-4}{5}\right) + \frac{7}{15} + \left(\frac{-11}{20}\right)$
(A) $\frac{-1}{5}$ (B) $\frac{-13}{60}$ (C) $\frac{-4}{15}$ (D) $\frac{-7}{30}$
11. If you subtract $\frac{1}{3}$ from a number and multiply result by $\frac{1}{3}$, it gives you $\frac{1}{9}$. What is the number?
(A) $\frac{1}{3}$ (B) $\frac{2}{3}$ (C) $\frac{4}{3}$ (D) $\frac{3}{4}$
12. The value of $1+3+5+7+\dots+39$?
(A) 441 (B) 499 (C) 361 (D) 400
13. The number of perfect squares between 1 and 50 is _____
(A) 6 (B) 7 (C) 8 (D) 9
14. The least perfect square, which is divisible by each 9, 10 and 12 is _____
(A) 400 (B) 1600 (C) 8100 (D) 900
15. To get a perfect square we should divide 3698 by
(A) 2 (B) 3 (C) 4 (D) 5
16. If $\sqrt{x+16} - \sqrt{x} = 2$, then x equals to _____
(A) 6 (B) 8 (C) 9 (D) 7
17. The value of $\sqrt[3]{-1728}$ is _____
(A) 12 (B) -12 (C) 13 (D) -13
18. $\sqrt[3]{1000} + \sqrt[3]{0.027} - \sqrt[3]{125}$ is equal to _____
(A) 5.3 (B) 6 (C) 18 (D) 3.5

19. If $x = a$, $y = a^{\frac{1}{3}}$, $z = a^{\frac{2}{3}}$. What will be the cube of x^2yz ?
(A) a^3 (B) a^6 (C) a^9 (D) a^{12}
20. If $\sqrt[3]{16\frac{16}{27}} = \frac{4}{3} \times \sqrt[3]{y}$, then the value of y is _____
(A) $\frac{2}{3}$ (B) 7 (C) $\frac{2}{9}$ (D) $\frac{4}{9}$
21. Twice a number added to half the number, the result is 250. Find the one tenth of the number?
(A) 17 (B) 8 (C) 9 (D) 10
22. If $\frac{z+5}{7} + \frac{4(z-11)}{9} + 3 = 0$ then $z =$ _____
(A) 1 (B) 2 (C) -4 (D) 5
23. The sum of five consecutive numbers is 140, then the greatest number is _____
(A) 29 (B) 30 (C) 31 (D) 32
24. The length of a rectangle is 2cm more than twice its breadth. Its perimeter is 28. The length of the rectangle is _____
(A) 14 cm (B) 8 cm (C) 12 cm (D) 10 cm
25. If the sum of two numbers is 8 and their difference is 2, then the number are _____
(A) 10, -2 (B) 6, -4 (C) 5, 3 (D) -5, -3
26. In a parallelogram PQRS, $\angle P = (4x - 5)^\circ$ and $\angle R = (3x + 10)^\circ$, then $\angle P =$ _____
(A) 55° (B) 110° (C) 125° (D) None
27. ABCD is a quadrilateral, the bisectors of $\angle A$ and $\angle B$ intersect at E. If $\angle C + \angle D = k\angle AEB$ then $k =$ _____
- 
- (A) 1 (B) 2 (C) 3 (D) 4
28. Diagonals of a rhombus are 10cm and 18cm then its area is equal to _____
(A) $90cm^2$ (B) $180cm^2$ (C) $100cm^2$ (D) $1800cm^2$
29. Sum of all interior angles of a polygon with 'n' sides is _____
(A) $(n+2)180^\circ$ (B) $n \times 180^\circ$ (C) $(n-2)180^\circ$ (D) All the above
30. Which one of the following is a regular quadrilateral?
(A) Kite (B) Square (C) Trapezium (D) Rectangle

PHYSICS**Section – III****Single Answer Questions**

1. A dam for water reservoir is built thicker at the bottom than at the top because:
(A) Pressure of water is very large at the bottom due to its large depth
(B) Water is likely to have more density at the bottom due to its large depth
(C) Quantity of water at the bottom is large
(D) None of these
2. Which of the following statements is False
(i) A force is always required to change the speed of a moving object.
(ii) Due to friction, the speed of the ball rolling on a flat ground decreases
(iii) There is no force between two charged objects placed at a small distance apart.
(A) (i) (B) (ii) (C) (iii) (D) None of these
3. The persistence of hearing for human beings is
(A) 1 second (B) 1/5 second (C) 1/10 second (D) 1/2 second
4. Which one of the following forces is a contact force?
(A) force of gravity (B) force of friction (C) magnetic force (D) electrostatic force
5. P_A , P_B and P_C are the values of pressure exerted by the liquid at A, B and C of the container respectively. Which of the following is true for the container?
(A) $P_B < P_A$ (B) $P_C > P_A$
(C) $P_A = P_B = P_C$ (D) $P_C = P_A > P_B$

6. If a ball is thrown upwards, it slows down, stops momentarily, and then falls back to the ground. Name the forces acting on the ball during its motion
(A) Magnetic force (B) gravitational force (C) frictional force (D) electrostatic force
7. A force of 10 N is applied on a nail, whose tip has an area of cross section 0.001 cm^2 . The pressure exerted by the force is,
(A) 10^8 N/m^2 (B) 10^4 N/m^2 (C) 10^6 N/m^2 (D) None of these
8. The directions of the force of friction and the force causing motion are
(A) Parallel and in the same direction (B) parallel and in opposite directions
(C) Perpendicular to each other (D) at random
9. Sound travels in air as,
(A) Longitudinal waves (B) transverse wave
(C) Electromagnetic waves (D) none of these
10. Which of the following is not a field force
(A) Magnetic force (B) frictional force (C) electrostatic force (D) gravitational force
11. Action and reaction forces do not balance each other because
(A) They are not equal (B) they act on same body
(C) They do not act on same body (D) none of these
12. A man stands on two feet. If the area covered by one foot is 50 cm^2 , the pressure exerted by the man on the ground if his weight is 600 N is
(A) 6 Nm^{-2} (B) $12 \times 10^3 \text{ Nm}^{-2}$ (C) $6 \times 10^4 \text{ Nm}^{-2}$ (D) none of these

13. Mountaineers suffer from nose bleeding at the top of the mountain due to
(A) Decrease in atmospheric pressure (B) increase in atmospheric pressure
(C) Decrease in blood pressure (D) over exercise
14. The force applied on an object may
(i) Make an object move from rest.
(ii) Change the speed of an object if it is moving.
(iii) Change the direction of motion of an object.
(iv) Bring about a change in the shape of an object.
The correct statements are
(A) (i) and (iv) only (B) (ii) and (iii) only (C) (i), (iii) and (iv) only (D) (i), (ii), (iii) and (iv)
15. A cube of mass of 20 kg is placed on the floor exerts a pressure of $2 \times 10^4 \text{ Nm}^{-2}$ on the floor. Then the side of the cube is ($g = 10 \text{ ms}^{-2}$)
(A) 1 cm (B) 10 cm (C) 100 cm (D) none of these

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

1. Which metal is the best conductor of electricity?
(A) Aluminium (B) Copper (C) Silver (D) Iron
2. Which of the following is non – lustrous
(A) Copper (B) Iodine (C) Graphite (D) None
3. Which of the following is cross linked polymer
(A) Bakelite (B) Melamine (C) Nylon (D) Both A and B
4. What is known as artificial wool
(A) Nylon (B) Acrylic (C) Polyester (D) Rayon
5. Which of the following is the most abundant element in the earth's crust?
(A) Silicon (B) Hydrogen (C) Helium (D) Oxygen
6. Which of the following can be beaten into thin sheets
(A) Silver (B) Phosphorus (C) Sulphur (D) Oxygen
7. Electrical switches and handles for various utensils are made of
(A) Polythene (B) Melamine (C) Bakelite (D) Teflon
8. Which of the following is a semi – synthetic polymer
(A) Rayon (B) Silk (C) Cotton (D) Wool
9. Which metal can be cut with a knife
(A) Aluminium (B) Sodium (C) Copper (D) Calcium
10. Metals are generally
(A) Malleable (B) Ductile (C) Sonorous (D) All of the above
11. Which of the following is true for synthetic fibre
(A) They dry slowly (B) They are comfortable to wear
(C) They are strong and durable (D) They absorb sweat easily

12. What gas is liberated when metal reacts with acids
(A) O_2 (B) H_2 (C) N_2 (D) CO_2
13. Which polyester is used to make bottles, utensils, films, wires
(A) PTFE (B) PVC (C) PET (D) PAN
14. Rayon is mixed with cotton to make
(A) Bed sheets (B) Carpets (C) Socks (D) Parachutes
15. What is the name of the property where metals make ringing sound
(A) Malleable (B) Sonorous (C) Ductile (D) Lustrous

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

1. The practice of growing crops on a large scale for food and other purposes is called:
(A) Agriculture (B) Horticulture (C) Sericulture (D) Apiculture
2. Which of the following is a Kharif crop?
(A) Wheat (B) Mustard (C) Paddy (D) Gram
3. The agricultural implement used for sowing seeds uniformly at proper depth is:
(A) Plough (B) Seed drill (C) Hoe (D) Leveler
4. The process of separating grains from the chaff is:
(A) Winnowing (B) Threshing (C) Harvesting (D) Irrigation
5. Fertilizers are:
(A) Manure made from cow dung
(B) Organic substances that improve soil fertility
(C) Inorganic chemicals rich in nutrients like N, P, K
(D) Substances that kill weeds
6. A farmer has two adjacent fields:
• Field A is irrigated frequently but has poor drainage.
• Field B is irrigated less often but has proper drainage.
After a few months, he finds that crops in Field A are stunted, while crops in Field B are healthy.
What is the MOST scientific explanation?
(A) Excess water in Field A reduces soil aeration, affecting root respiration.
(B) Crops in Field A require more fertilizers.
(C) Field B receives more sunlight than Field A.
(D) Frequent irrigation in Field A increases nutrient absorption.
7. Which irrigation method is the most water-efficient and also reduces soil salinity?
(A) Sprinkler irrigation (B) Traditional canal irrigation
(C) Drip irrigation (D) Flood irrigation
8. During storage of harvested grains, a farmer decides to mix neem leaves with the grains. What is the MOST logical reason behind this practice?
(A) Neem leaves provide additional nutrients to the grains
(B) Neem leaves prevent attack by pests and insects
(C) Neem leaves reduce the moisture content of the grains
(D) Neem leaves increase the shelf-life by absorbing oxygen

9. Which pair is correct?
(A) Herbicides – kill insects
(B) Pesticides – kill weeds
(C) Weedicides – kill weeds
(D) Insecticides – increase soil fertility
10. Crop rotation helps mainly in:
(A) Increasing irrigation
(B) Reducing soil erosion
(C) Maintaining soil fertility
(D) Harvesting crops quickly
11. A farmer wants to store harvested grains for a long time. Which method is least useful?
(A) Drying before storage
(B) Using neem leaves
(C) Spraying insecticides
(D) Keeping grains moist
12. A farmer grew paddy continuously in the same field for 5 years. After that, yield decreased drastically even with fertilizers. The most scientific reason is:
(A) Soil erosion
(B) Depletion of micronutrients and nitrogen fixation cycle imbalance
(C) Irrigation water shortage
(D) Lack of pesticides
13. Match the following and choose the correct option:
A. Combine → (i) Adds nutrients to soil
B. Manure → (ii) Harvesting + Threshing machine
C. Pesticides → (iii) Controls crop diseases
(A) A–ii, B–i, C–iii
(B) A–iii, B–ii, C–i
(C) A–i, B–iii, C–ii
(D) A–ii, B–iii, C–i
14. A farmer applied only urea continuously for years. Which change is most likely to occur in the soil?
(A) Soil fertility increases forever
(B) Soil becomes acidic and organic matter decreases
(C) Soil becomes neutral and porous
(D) Soil microbes multiply uncontrollably
15. Which of the following sequences shows the correct order of steps in crop production?
(A) Irrigation → Harvesting → Manuring → Sowing
(B) Preparation of soil → Sowing → Adding manure/fertilizers → Irrigation → Weeding → Harvesting → Storage
(C) Sowing → Weeding → Irrigation → Preparation of soil → Storage
(D) Manuring → Storage → Irrigation → Harvesting

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Answer key – Class - 08**MAT**

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

MATHS

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

PHYSICS

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

CHEMISTRY

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

BIOLOGY

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