

MSAT - 2025



(MAHARISHI SCHOLARSHIP CUM ADMISSION TEST) Class – 06th going to 7th SAMPLE PAPER

<u>Disclaimer:</u> 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.

Time: 3 Hour Maximum Marks: 155

General Instructions:

- Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.
- You are not allowed to leave the examination hall before the end of test.
- 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.
- This booklet is your Question Paper.
- This Question Paper booklet contains 5 Sections. All Section contains Part A.

PHYSICS

Section	Subject	Types of Questions	Number of Questions	Marking Scheme
	MAT	Single Answer Questions	20	+1,0
II	MATHS	Single Answer Questions	15	+3,-1
III	PHYSICS	Single Answer Questions	10	+3,-1
IV	CHEMISTRY	Single Answer Questions	10	+3,-1
V	BIOLOGY	Single Answer Questions	10	+3,-1

CHEMISTRY

USEFUL DATA

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Acceleration due to g		Gas Constant	R =	$8.314 \text{ J K}^{-1} \text{mol}^{-1}$		
Planck constant	$h = 6.6 \times 10^{-34} J - s$		=	0.0821 Lit atm		
Charge of electron	$e = 1.6 \times 10^{-19} C$	$K^{-1}mol^{-1}$				
Mass of electron	: $m_e = 9.1 \times 10^{-31} kg$	$K^{-1}_{mol}^{-1}$	=	1.987 ≈2 Cal		
Permittivity of free space : $\varepsilon_0 = 8.85 \times 10^{-12} C^2 / N - m^2$				22		
Density of water	$: \rho_{water} = 10^3 kg / m^3$	Avogadro's Number N_a	=	6.023×10^{23}		
	5 2	Planck's constant h	=	$6.625 \times 10^{-34} J.s$		
Atmospheric pressur Gas constant	e : $Pa = 10 \text{ N/m}$: $R = 8.314 \text{ J}$		=	6.625×10^{-27} erg.s		
	110 0.0111	1 Faraday	=	96500 coulomb		
$K^{-1} mol^{-1}$		1 calorie	=	4.2 joule		
		1 amu	=	$1.66 \times 10^{-27} kg$		
		1 eV	=	$1.6 \times 10^{-19} J$		
Atomic No:	H = 1, $He = 2$, $Li = 3$, $Be = 4$, $B = 4$	5, $C = 6$, $N = 7$, $O = 8$	F = 9, Ne	e = 10, Na = 11,		
	Mg = 12, $Si = 14$, $Al = 13$, $P = 15$	S = 16, Cl = 17, Ar = 10	18, K = 19	$C_{a} = 20$		
	Cr = 24, $Mn = 25$, $Fe = 26$, $Co = 27$, $Ni = 28$, $Cu = 29$, $Zn = 30$, $As = 33$, $Br = 35$,					
Ag = 47, $Sn = 50$, $I = 53$, $Xe = 54$, $Ba = 56$, $Pb = 82$, $U = 92$.						
	6 ,,,, 110 0	,,,				
Atomic masses: H = 1, He = 4, Li = 7, Be = 9, B = 11, C = 12, N = 14, O = 16, F = 19, Na = 23, Mg = 24, Si = 28, Al = 27, P = 31, S = 32, Cl = 35.5, K = 39, Ca = 40, Cr = 52,						
						Mn = 55, Fe = 56, Co= 59, Ni = 58.7, Cu = 63.5, Zn = 65.4, As = 75, Br = 80,
Ag = 108, Sn = 118.7, I = 127, Xe = 131, Ba = 137, Pb = 207, U = 238.						
	115 100, 511 110.7, 1 127, 11	101, 20 107, 10	- 0., 0			

Name	:
Registration Number	:

MSAT - 2025 (Sample Paper) Page - 2 Class - 06 **MAT & PCBM** MAT Section - I Part - A **Single Answer Questions** Direction (Q.No. 1 to 5): In each of the following questions one term is missing as shown by (?). Find the missing term. 1. 17, 18, 22, 32, 47, ? (A) 70 (B) 72 (C) 65 (D) 67 11, 11, 33, 165, 1155, ?, 114345 (A) 10395 (B) 16390 (D) 17265 (C) 15395 1127, 1138, 1160, 1193, 1237, ? (A) 1345 (B) 1122 (C) 1015 (D) 1292 4. DM, HR, LW, PB, TG, ? (B) VT (C) XL (D) WQ (A) RP 5. I, J, M, R, ?, H (A) Y (B) B (D) Z 6. Which group of letter is different from the rest? (A) QRS (C) TW2 (D) HKN 7. Choose the number which is different from the rest? (A) 79 (B) 103 (C) 89 (D) 91 8. Which of the following is different from the rest? (A) Asia (B) India (C) Europe (D) Australia Direction (Q. No. 9 to 12): The letter group in each of these questions is to be codified as per the following number codes. Letters С E M ON Ρ S Τ Χ **Number codes** 5 3 0 9 4 6 8 1 You have to find out which of the alternatives (A), (B), (C) and (D) has the correct coded from of the given letter group. 9. CEMENT (A) 257514 (B) 751452 (C) 525741 (D) 257145 10. POST (A) 9340 (B) 3940 (C) 0394 (D) 3490 11. PTVSNM (B) 046917 (C) 406971 (D) 694071 (A) 704691 12. XCEMPV (B) 287560 (C) 852706 (D) 528706 (A) 825706

Direction (Q.No.13 to 15): In each of the following questions, choose one word that CANNOT be formed from the letters of the given word.

13. EXPLANATION (A) PLAN

(B) NATION

(C) EXPLAIN

(D) ANIMAL

MSAT - 2025 (Sample Paper) Page - 3 Class - 06 **MAT & PCBM** 14. INTERNATIONAL (B) INTER (C) LION (D) ENTER (A) NOTE 15. TRANSFORMATION (D) TRAIN (B) FORM (C) ANSWER (A) RAIN 16. P and Q are brothers. R and S are sisters. Q's son is S's brother. How is P related to R? (A) Uncle (B) Sister (C) Brother (D) Father 17. If 'Orange' is called 'Black', 'Black' is called 'White', 'White' is called 'Blue', 'Blue' is called 'Red' and 'Red' is called 'Green', then what would be the colour of human blood? (A) Green (B) Blue (C) Red (D) Black 18. If 'Book' is called 'Pen', 'Pen is called 'Pencil', 'Pencil' is called 'Bag', 'Bag' is called 'Basket' and 'Basket' is called 'School', then which is used to carry the books? (C) Basket (A) Pen (B) Pencil (D) School 19. L and M are sisters. N is M's mother. O is N's father. T is L's brother, then how is L related to O? (A) Granddaughter (B) Grandson (C) Daughter (D) Father 20. In the following question four numbers are given. Out of there three are like in a certain way but rest one is different. Choose the one which is different from the rest three. (A) $13 \times 6 \rightarrow 87$ (B) $12 \times 9 \to 801$ (C) $15 \times 7 \rightarrow 501$ (D) $14 \times 5 \rightarrow 70$ Section - II **MATHS** Part - A **Single Answer Questions** 1. Which of the following pairs of integers have 5 as difference? (A) 10, 5 (C) 15, -20(D) both (B) & (C) (B) - 10, + 52. The statement for "5 subtracted from thrice a number is 16" can be written as (A) 3(x-5) = 16(C) 3x = 16 = 5(D) 3x - 5 = 163. Given that $A = (5 \times 3) \times 3$, $B = 6 \times (3 \times 2)$ then A - B is (C) 36 (D) 45 4. Shaded portion represents of a whole. 5. The additive inverse of (-3xy - 5z) is (A) 3xy + 5z(C) 3xy - 5z(D) - 3xy + 5z6. Thrice of a number when increased by 6 gives 24. The number is (B)7(D) 11 7. Roman numerals for 991 is (A) IXIXI (B) CMXCI (C) CMIXIX (D) CMIIC

MSAT - 2025 (Sample Paper) Page - 4 Class - 06 **MAT & PCBM** 8. If x = 3, y = 1 then $x^{x} + x^{y} + y^{x}$ is equal to (C) 28 (A) 30(D) 11 9. What do you call two fractions, whose product is 1? (A) additive inverse to each other (B) multiplicative inverse to each other (C) only (A) (D) both (A) and (B) 10. If $m = (-1)^{2000}$ and $n = (-1)^{2002}$, then the value of $\frac{m}{5}$ (D) 2002 (C) 2000 11. Krishna covers a certain distance in 150 minutes. He covers half of the distance in $\frac{4}{15}$ of the time. Find the time taken to cover the remaining distance. (D) 100 minutes (B) 120 minutes (C) 40 minutes (A) 110 minutes 12. In a game, if we hit a balloon, we get 300 points and if we miss the balloon, we lose 100 points. Raj hits 15 balloons and misses 40 balloons. Find his net score. (C) 300(D) 200 (A) 500 (B) 400 13. Find the missing digit such that the 161 51 is divisible by 11. (D) 0 14. 40% of 25% of $\frac{3}{4}$ th of ? = 120 (A) 160 (B) 1750 (C) 1600 (D) 1500 15. Value of $4\frac{1}{2} \times 4\frac{1}{3} - 8\frac{1}{3} \div 5\frac{2}{3}$ is (A) $\frac{7}{17}$ (D) $18\frac{1}{34}$ (C) 8 **PHYSICS** Section - III Part - A **Single Answer Questions** 1. Number of minutes in 5 days (B) 120 (A) 300 (C) 7200 (D) 7600 2. 20 grams is equivalent to (A) 0.2 kg(B) 0.02 kg (C) 0.002 kg (D) 20,000 kg What kind of motion does the distance time graph of an object represent? (A) Non uniform motion (B) Uniform motion (C) The object is at rest (D) Meaningless graph 4. The motion of a stone dropped from a roof is (A) Rectilinear (B) Curvillinear (C) Oscillatory (D) Circular 5. Choose the correct statement (A) Unit of acceleration is ms⁻² (B) Speed = distance/time C) If a body moves with uniform velocity its acceleration is zero (D) All the above For More details: Reg. Office: No.175, Poonamallee High Road, Opp Ega Theatre, Kilpauk, Chennai - 600010

Website: www.maharishiglobal.org Contact No.9677177717, 9282411558

MSAT - 2025 (Sample Paper) Page - 5 Class - 06 **MAT & PCBM** 18 km/h is same as (B) 5 m/s (C) 10 m/s (D) 36 m/s (A) 18 m/s 7. A car travels a distance of 200 meters in 5 minutes. Then the speed of the car is (B) 2400 m/s (C) 2400 km/h (D) 2.4 km/h (A) 40 m/s 8. To measure time in athletic events, we use a (A) stop watch (B) pendulum clock (C) Wrist watch (D) none of these A boy goes to the market which is 750 m away in 5 minute. His speed is, (D) none of these (A) 25 m/s (B) 150 m/s (C) 2.5 m/s 10. One decade is equal to (A) 100 years (B) 10 years (C) 1000 years (D) none of these **CHEMISTRY** Section – IV Part - A **Single Answer Questions** 1. Which of the following is known as universal solvent? (A) Water (C) Alcohol (B) Salt water (D) Lime water 2. Chemical formula for rust is (C) $Fe_2O_3 \times H_2O$ (A) $Fe_2O_3H_2O$ (B) $Fe_2O_35H_2O_3$ (D) None of these 3. Which is a malleable substance? (A) Wood (B) Stone (C) Glass (D) Iron 4. Which of these is an element? (A) Water (B) Carbon dioxide (C) Oxygen (D) Ice 5. Which is not transparent? (B) Water (A) Butter paper (C) Air (D) Glass 6. Heavy solid particles that settle at the bottom are called (A) Residue (B) Sediment (C) Decant (D) Loading 7. Copper is a metal so it is (A) Good conductor of electricity (B) Good conductor of heat (C) Malleable and ductile (D) All of these 8. Which is not correct regarding winnowing method? (A) It is used to separate lighter particles from heavier particles (B) It is done with the help of water (C) It is done with the help of wind (D) It is used to separate chaff from grains 9. Which of the following us Lustrous (A) Paper (B) Plastic (C) Wood (D) Gold 10. When no more solute dissolves in solution even with the application of heat the solution is said to be\ (B) Saturated (A) Unsaturated (C) Supersaturated (D) Multisaturated

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BIOLOGY Section – IV

	Part – A							
Single Answer Questions								
1.	Body building material is (A) Fats	(B) Protein	(C) Sugar	(D) All of these				
2.	Which component gives bulk to th (A) Protein	e food and also known a (B) Vitamins	s roughage? (C) Minerals	(D) Fibres				
3.	Deficiency of which vitamin is resp (A) Vitamin A	oonsible for Rickets? (B) Vitamin B	(C) Vitamin C	(D) Vitamin D				
4.	Which vitamin gets easily destroy (A) Vitamin A	ed by heat during cooking (B) Vitamin D	g? (C) Vitamin E	(D) Vitamin C				
5.	Swollen glands of neck is due to (A) Excess of iodine (C) Excess of iron		(B) Deficiency of iodine (D) Deficiency of iron					
6.	Iodine solution change the colour (A) Blue and black	of starch to (B) Violet	(C) Oily patch	(D) Indigo				
7.	If the design made by vein is net I (A) Reticulate venation (C) Ampho venation	ike on both sides of midr	ib, the venation is (B) Parallel venation (D) Bay venation					
8.	Plants with weak stems that cannot (A) Tendrils	ot stand upright are calle (B) Creeper	d (C) Stolon	(D) Herbs				
9.	Which one is not a part of flower? (A) Sepals	(B) Petals	(C) Petiole	(D) Pistil				

(A) Honey (B) Oil

(C) Seed

(D) Protein

MSAT - 2025 (Sample Paper) Page - 7 Class - 06 MAT & PCBM

Answer key Class - 06

MAT

5. A

10. B

1. B 2. A 3. D 4. C

7. B

6. A

6. A 7. D 9. A 10. C 8. B

11. B 15. C 12. A 13. D 14. D

16.A 17.A 18.C 19.A 20.D

MATHS

9.B

1. A 2. D 3. A 4. A

8. B

15. D 11. A 12. A 13. D 14. C

PHYSICS

1. C 2. B 3. B 5. D

7. A 9.C 6. B 10.B

CHEMISTRY

1. A 3. D 4. C 5. A

6. B 7. D 8. B 9. D 10. C

BIOLOGY

2. D 3. D 4. D 5. B

7. A 8. B 9. C 10. A