

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
2	Question Image If A and B are matrices of same order than (,A + B)(A + B) =	D. None of these A. A ² + B ² B. A ² + B ² 2AB C. A + B D. A ² + B ² AB + BA
3	If 2 Sin x Cos 2 x = Sin x then?	
4	Which of the vectors have opposite direction?	D. Both A and B
5	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the cirle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
6	If you are looking a high point from the ground, then the angle formed is	A. Angle of elevation B. Angle of depression C. Right angle D. Horizon
7	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
8	Question Image	
9	Question Image	
10	The number ways in which 5 distinct toys can be distributed among 3 children is	A. 3 ⁵ B. 5 ³ C. C ₃ ⁵ D. P ₃ ⁵
11	What is the period of Cot x?	
12	The nth term in G.P 3,-6,12, is	A. 3(-2) ⁿ⁻¹ B. 2(-2) ⁿ⁺¹ C. 3(-2) ⁿ D. 4(-2) ⁿ⁻¹
13	Which of the following integrals can be evaluated	
14	The length of rectangle is twice as much as its breadth. If the perimeter is 120 cm, the length of the rectangle is	A. 10 cm B. 20 cm C. 30 cm D. 40 cm
15	A vector of magnitude zero is called	A. Position vector B. Null vector C. Free vector D. None of these
16	If A and B are two events, then P(AUB) = ? (when A and B are disjoint)	A. P(A) - P(B) B. P(A) x P(B) C. P(A)+P(B)
17	Which of the following is the subset of all sets?	B. {1, 2,3} D. {0}
18	If the sum of the roots of the equation $ax^2 - 2x + 2a = 0$ is equal to their product, then the value of a is	A. 1 B. 2 C. 3 D. 4
19	The constant distance of all points of the cirlce from its centre is called the	A. Radius of the circle B. Secant of the circle C. Chord of the circle

D. Diameter of the circle

20 Question Image D. None