


Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	If A and B are matrices such that $AB=BA=I$ then	<p>A. A and B are multiplicative inverse of each other</p> <p>B. A and B are additive inverses of each other</p> <p>C. A and B are singular matrices</p> <p>D. A and B are equal</p>
2	The radius of the circle $(x-1)^2 + (y+3)^2 = 64$ is	<p>A. 8</p> <p>C. 4</p> <p>D. 64</p>
3	What is the domain of $y = \text{Cot}^{-1}x$?	<p>A. Set of irrational number only</p> <p>B. Set of all real numbers</p> <p>C. Set of intergers only</p> <p>D. Set of complex numbers only</p>
4	If P(E) is the probability that can event will occur, then $P(E) =$	<p>A. 1</p> <p>B. 0.5</p> <p>C. 2</p> <p>D. 0</p>
5	The multiplicative inverse of x such that $x = 0$ is	<p>A. -x</p> <p>B. does not exist</p> <p>C. $1/x$</p> <p>D. 0</p>
6	What is the period of $\text{Cot } x$?	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. Unit matrix</p> <p>B. Diagonal matrix</p> <p>C. Nilpotent matrix</p> <p>D. Zero matrix</p>
8	Total number of terms in the expansion of $(a + b)^5 + (a - b)^5$ after simplification are	<p>A. 3</p> <p>B. 1</p> <p>C. 4</p> <p>D. 7</p>
9	The number ways in which 5 distinct toys can be distributed among 3 children is	<p>A. 3^5</p> <p>B. 5^3</p> <p>C. $3^3 \times 5^5$</p> <p>D. $3^3 \times 5^5$</p>
10	If $2 \sin x \cos 2x = \sin x$ then?	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	The number of diagonals of a six sided figure are	<p>A. 9</p> <p>B. 6</p> <p>C. 12</p> <p>D. 3</p>
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. None
15	In general matrices do not satisfy	<p>A. Commutative law w.r.t multiplication</p> <p>B. Associative law w.r.t addition</p> <p>C. Distributive law w.r.t addition</p> <p>D. Multiplication of a scalar with the matrix</p>
16	The set $\{a, b\}$ is	<p>A. Infinite set</p> <p>B. Singleton set</p> <p>C. Two points set</p> <p>D. None</p>
17	If the sum of the roots of $(a + 1)x^2 + (2a + 3)x + (3a+4) = 0$ is -1, then product of the roots is	<p>A. 1</p> <p>B. 2</p> <p>C. -2</p> <p>D. -1</p>
		A. Obtuse

- 18 If the angle of a triangle are in the ratio 2:3:7, the triangle is
- B. Acute
C. Right angle
D. Isosceles
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- 19  Question Image
- A. An equation
B. Linear equation
C. Rational fraction
D. Identity
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- 20 Which is in the solution set of $4x - 3y < 2$
- A. (3, 0)
B. (4, 1)
C. (1, 3)
D. None
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