

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If A is a skew-symmetric matrix of order n and P, any square matrix of order n. prove that P ^t AP is	<p>A. Skew-symmetric</p> <p>B. Symmetric</p> <p>C. Null</p> <p>D. Diagonal</p>
2	6 is	<p>A. A prime integer</p> <p>B. An irrational number</p> <p>C. A rational number</p> <p>D. An odd integer</p>
3	If x,y are two positive distinct numbers then	<p>A. $A > G > H$</p> <p>B. $A < G < H$</p> <p>C. $A = G = H$</p> <p>D. None of these</p>
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. -3</p> <p>B. -7</p> <p>C. 1</p> <p>D. 0</p>
5	A man of height 6 ft observes the top of a tower and the foot of the tower at angles of 45° and 30° of elevation and depression respectively. The height of the tower is	<p>A. 1/3</p> <p>B. 1</p> <p>C. 3</p> <p>D. None of these</p>
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. 120</p> <p>B. 1512</p> <p>C. 1250</p> <p>D. 15120</p>
7	The domain of the principle sine function is	<p>A. Commutative group w.r.t addition</p> <p>B. Commutative group w.r.t multiplication</p> <p>C. Commutative group w.r.t division</p> <p>D. Non commutative group w.r.t addition</p>
8	The term involving x^4 in the expansion of $(3 - 2x)^7$ is	<p>A. 0</p> <p>B. -1</p> <p>C. 1</p> <p>D. ∞</p>
9	The set of complex numbers forms	<p>A. square root function</p> <p>B. identity function</p> <p>C. linear function</p> <p>D. quadratic function</p>
10	probability of a certain event is	<p>A. R</p> <p>B. Set of all non-negative Real numbers</p> <p>C. $\mathbb{R}^{>-1}$</p> <p>D. None of these</p>
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	<p>A. $-\operatorname{cosec}^2 x$</p> <p>B. $-\sec^2 x$</p> <p>C. $-\operatorname{cosec} x \cot x$</p> <p>D. $\operatorname{cosec} x$</p>
12	Domain of tangent function is	<p>A. A = x, B = 1</p> <p>B. A = 0, B = 2</p> <p>C. A = -1, B = 1</p> <p>D. A = x-1, B = x+1</p>
13	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y. If AB = 1, then the height h of the tower is given by	<p>A. length</p>
14	The domain the function : $f(x) = x^2$ is given by	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	

17 Which of the following is a vector

- B. momentum
- C. volume
- D. speed

18 $x^4 - 3x^3 + 3x + 1 = 0$ is called _____

- A. Reciprocal equation
- B. Exponential equation
- C. Radical equation
- D. None of these

19 If $y = \sin(ax+b)$ then $y^4 =$ _____ :

- A. $\sin^4(ax+b)$
- B. $a^4\sin(ax+b)$
- C. $a^4\cos(ax+b)$
- D. None of these

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