


Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	The roots of the equation $4x^2 - 3.2x + 32 = 0$ would include	A. 1 and 3 B. 1 and 4 C. 1 and 2 D. 2 and 3
4	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A2 B. A5 C. A3 D. A7
5	Question Image	A. $\sec x \tan x$ B. $-\operatorname{cosec} x \cot x$ C. $\sec^2 x$ D. $-\sin x$
6	The second degree equation of the form $Ax^2 + By^2 + Gx + Fy + C = 0$ represent hyperbola if	A. $A = B \neq 0$ B. $A \neq B$ and both are of same sign C. $A \neq B$ both are of opposite sign D. Either $A = 0$ or $B = 0$
7	Which element is the additive inverse of (a,b) in Complex numbers	A. (a,0) B. (0,b) C. (a,b) D. (-a,-b)
8	If (2,0) is the vertex and y-axis is directrix of parabola then focus is	A. (2,0) B. (-2,0) C. (4,0) D. (-4,0)
9	An open sentence formed by using the sign of equality "=" is called	A. Equation B. In equation C. True sentence D. False sentence
10	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
11	Question Image	A. Additive property in \mathbb{R} B. Multiplication property in \mathbb{R} C. Cancellation property in \mathbb{R} D. Distribution property in \mathbb{R}
12	Question Image	
13	Question Image	
14	If $f(x) = a_0 + a_1x + a_2x^2 + a_3x^3 + \dots + a_{n-1}x^{n-1} + a_nx^n$ then $f(n)(x)$ is equal to	A. $n!$ B. $a_n n!$ C. 0 D. a_n
15	Question Image	A. 0 B. -2 C. 1 D. 4
16	Question Image	A. 2×2 B. 2×3 C. 3×2 D. 3×3
17	$\{x : x \in \mathbb{Z} \text{ and } x < 1\}$ is	A. Singleton set B. A set with two points C. Empty set D. None of these
		A. $x \in A \Rightarrow x \in B$ B. $x \in A \Rightarrow x \notin B$ C. $x \in A \wedge x \in B$ D. $x \in A \vee x \in B$

18 For any two sets A and, $A \subseteq B$ if

- B. $x \notin A \Rightarrow x \notin B$
- C. $x \in A \Rightarrow x \in B$
- D. None of these

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- A. Does not exist because f is unbounded
- B. Is not attained even though f is bounded
- C. Is equal to 1
- D. Is equal to -1

20 A and B throw a dice. The probability that A's throw is not greater than B's is

- A. 5 / 12
- B. 7 / 12
- C. 1 / 6
- D. 1 / 2