

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	C. 0 D. 1
2	$n(n - 1) (n - 2) \dots (n - r + 1) = \underline{\hspace{2cm}}$	
3	Which of the following is skew symmetric matrix	
4	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
5	$30^\circ = \underline{\hspace{2cm}}$	
6	What is the conjugate of $-7 - 2i$?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. $\sqrt{53}$
7	If $w+2$ is a root of $(x+1)(x+2)(x+3)(x+4) = k$, then	A. $k=0$ B. $k=1$ C. $k=w$ D. $k=w^2$
8	Question Image	A. 1 B. 0 C. -1 D. 2
9	Question Image	A. Singleton set B. A set with two points C. Empty set D. None of these
10	The differential equation representing the family of curves $y = A \cos (x + B)$, where A, B are parameters, is	
11	A diagonal matrix is always	A. Identity B. Triangular C. Scalar D. Non-singular
12	If the angle between two vectors \underline{u} and \underline{v} is 0 or π , then the vectors \underline{u} and \underline{v} are:	A. Orthogonal B. Collinear C. Perpendicular D. None of these
13	If $a=5j + 2j, b=2i - 3j$, then $ a+2b =$	A. $\sqrt{21}$ B. $\sqrt{97}$ C. $\sqrt{39}$ D. None of these
14	The fifth term of an A.P. Whose first term is 5 and common difference is 3, is	A. 20 B. 17 C. 25 D. 30
15	Question Image	
16	The axis of the parabola $y^2 = 4ax$ is	A. $X = 0$ B. $Y = 0$ C. $X = y$ D. $X = -y$
17	Question Image	
18	The value of x which is unchanged by the mapping in the function defined by $f : x \mapsto x^2 + 5x - 5$ for $x > 0$ is	A. 1 B. 5 C. -5 D. -1
19	Question Image	A. 2×2 B. 2×3 C. 3×2 D. 3×3

20 The perpendicular bisector of any chord of a circle

- A. Passes through the centre of the circle
- 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