

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$i^2 =$	A. 1 B. 2 C. -1 D. 0
2	The coefficient of x^n in the expansion of $(1-x)^{-1}$ is	A. $(-1)^n 2^n$ B. 1 C. $(-1)^n (n+1)$ D. $(n+1)$
3	Question Image	A. Identity matrix B. Diagonal matrix C. Null matrix D. Hermitian matrix
4	Question Image	A. 184 D. none of these
5	The conjugate of $\sqrt{5} i$ is	A. $\sqrt{5}$ B. $-\sqrt{5} i$ C. i D. $5i$
6	The differential equation representing the family of curves $y = A \cos (x + B)$, where A, B are parameters, is	
7	Question Image	
8	If $(1+x-2x^3)^6 = 1+a_1x + a_2x^2 + a_3x^3 + \dots$ the the value of $a_2 + a_4 + a_6 + \dots + a_{12}$ will be	A. 32 B. 31 C. 64 D. 1024
9	The system of measurement in which the angle is measured in radians is called the	A. circular system B. CGS system C. sexagesimal system D. none of these
10	If for two events A and B , $P(A \cup B) = 1$, then events A and B are	A. Certain events B. Mutually exclusive C. Complementary events D. Independent
11	Question Image	A. $A = x$, $B = 1$ B. $A = 0$, $B = 2$ C. $A = -1$, $B = 1$ D. $A = x-1$, $B = x + 1$
12	Associative law of multiplication	A. $ab = ba$ B. $a(bc) = (ab) c$ C. $a(b+c) = ab + ac$ D. $(a + b)c = ac + bc$
13	Question Image	B. $a f(x) + c$ C. $f(x) + a$
14	Question Image	A. additive property B. multiplicative property C. additive inverse D. additive identity
15	If the angle between two vectors with magnitude 2 and 15 is 30° then their scalar product is	B. 15 C. 30
16	$f(x) = 2^x + 3 \cdot 2^{2x} + 5$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
17	The 26th term of the A.P -2,-4,10,.....is	A. 136 B. -136 C. 148 D. -148

18	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these
19	The maximum value of $12 \sin \theta - 9 \sin^2 \theta$ is x	A. 3 B. 4 C. 5 D. None of these
20	If $P = \{x/x = p/q \text{ where } p, q \in \mathbb{Z} \text{ and } q \neq 0\}$, then P is the set of	A. Irrational numbers B. Even numbers C. Rational numbers D. Whole numbers