

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If n is add the expansion $(a + x)^n$ has middle terms	A. 2 B. 3 C. 4 D. 5
2	Let A be a square matrix. Then, 1/2 (A-A') is	A. Skew-symmetric B. Symmetric C. Null D. None of the above
3	Question Image	
4	Question Image	
5	Question Image	D. none of these
6	A square matrix A = [aij] is lower triangular matrix when	A. aij = 0 for all i <j b.="" bij="0" c.="" cij="0" d.="" dij="0</td"></j>
7	The obtuse angle between lines = -2 and y = x $+2$ is	A. 120° B. 135° C. 150° D. 140°
8	2/9,5/7 ∈ R,(2 9)(5 7)=10/63 ∈ R this property is called	A. Associative property B. Identity property C. Commutative property D. Closure property w.r.t multiplication
9	The formula an = arn-1represents	A. nth term of G.P B. Sum of the first n terms C. G.M between a and b D. None of these
10	Associative law of multiplication	A. ab = ba B. a(bc) = (ab) c C. a(b+c) = ab + ac D. (a + b)c = ac + bc
11	$x = \sin^{-1} 3$, then the value of sin x is	A. √(3/2) B. 3 C. Not possible D1
12	$\sin\left(\frac{\alpha}{\alpha}+\beta\right)+\sin\left(\frac{\alpha}{\alpha}-\beta\right)$	A. 2 sin <i>α</i> cos <i style="text-align: center;">βα</i> <i style="text-align: center;">β</i> C. sin <i style="text-align: center;">α</i> C. sin <i style="text-align: center;">α</i> family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);"> <i>α</i> D. None of these
13	Question Image	
14	If the angle between two vectors with magnitude 2 and 15 is 30°then their scalar product is	B. 15 C. 30
		A 3

A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is C. 5 / 13 D. 5 / 9 If the vector 2i + 4j - 7k and 2i + 6j + xk are perpendicular then x = ? A. 0 B. 2 C. 4 D. 7 A. (1, -1) B. (2,2) C. (0,0) D. (3,0) If A = [a _{ij}] is (m x n) matrix, then transpose of A is of the order A. m x m B. m x n C. n x n D. n x m A1 B. 0 C. 1 D. Undefined	15	The maximum value of 12 $\sin\theta$ -9 $\sin^2\theta$ is x	B. 4 C. 5 D. None of these
If the vector $2i + 4j - 7k$ and $2i + 6j + xk$ are perpendicular then $x = ?$ B. 2 C. 4 D. 7 A. $(1, -1)$ B. $(2, 2)$ C. $(0, 0)$ D. $(3, 0)$ If $A = [a_{ij}]$ is $(m \times n)$ matrix, then transpose of A is of the order B. 2 A. $(1, -1)$ B. $(2, 2)$ C. $(0, 0)$ D. $(3, 0)$ A. $m \times m$ B. $m \times n$ C. $n \times n$ D. $n \times m$ A. -1 B. 0 C. 1	16		B. 8 / 15 C. 5 / 13
The point is in the solution of the inequality $2x - 3y > 5$ B. $(2,2)$ C. $(0,0)$ D. $(3,0)$ 19 If $A = [a_{ij}]$ is $(m \times n)$ matrix, then transpose of A is of the order A. $m \times m$ B. $m \times n$ C. $n \times n$ D. $n \times m$ A1 B. 0 C. 1	17	If the vector 2i + 4j - 7k and 2i + 6j + xk are perpendicular then x = ?	B. 2 C. 4
19 If A = [a _{ij}] is (m x n) matrix, then transpose of A is of the order B. m x n C. n x n D. n x m A1 B. 0 C. 1	18	The point is in the solution of the inequality $2x - 3y > 5$	B. (2,2) C. (0,0)
20 Sin 270° = B. 0 C. 1	19	If $A = [a_{ij}]$ is $(m \times n)$ matrix, then transpose of A is of the order	B. m x n C. n x n
	20	Sin 270° =	B. 0 C. 1