

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If the sum of even coefficients in the expansion of $(1+x)^n$ is 128 then	A. $n=7$ B. $n=9$ C. $n=8$ D. None
2	The triangle that does not have a right angle is called.	A. Isosceles triangle B. right angle triangle C. equivalent triangle D. oblique triangle
3	The magnitude of vector $a=i-3j+5k$ is:	A. 3 B. $\sqrt{35}$ C. $\sqrt{17}$ D. $\sqrt{35}$
4	Question Image	
5	For a square matrix A, if $A = A^t$, then A is called	A. matrix B. Transpose C. Symmetric D. Non-symmetric
6	If S_n is a definite number as $n \rightarrow \infty$, then the geometric series is	A. Convergent B. Divergent C. Oscillatory D. None of these
7	For three consecutive terms in A.P middle term is called	A. A.M B. nth term C. Central term D. None of these
8	Question Image	
9	If $A = [a_{ij}]_{m \times p}$ and $B = [a_{ij}]_{p \times n}$ then order of BA is	A. $m \times n$ B. $p \times n$ C. $n \times m$ D. None of these
10	If the cutting plane is slightly tilted and cuts only one nappe of the cone, the intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
11	Which one is not defined $\forall n \in \mathbb{Z}^+$	A. $-n!$ B. $n!$ C. $(-n)!$ D. $n! + 0! = n! + 1$
12	If $u = xi + yj$, then $ u $	A. $x^2 + y^2$ B. $(x^2 + y^2)^2$ C. $x^2 - y^2$ D. $\sqrt{x^2 + y^2}$
13	If a parabola opens down, then its vertex is at the	A. Right of the parabola B. Left of parabola C. Lowest point on the parabola D. Highest point on the parabola
14	$\underline{O}(0,0)$ is called:	A. Position vector B. Free vector C. Unite vector D. Null vector
15	If $n(X) = 18$, $n(X \cap Y) = 7$, $n(X \cup Y) = 40$ then $n(Y) =$	A. 1 B. 12 C. 5 D. 29
16	Question Image	D. none of these
17	Question Image	

18	If the intersection of two sets is non-empty, but neither is a subset of the other, they are called	A. Disjoint sets B. Overlapping C. Equal sets D. None of these
19	Question Image <input type="text"/>	
20	If $\cos 2\theta = k$ and $\cos x = 2k^2 - 1$, then the possible values of x between 0° and 360° are	A. 140° B. 50° and 140° C. 50° and 130° D. 40° and 320°