

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The point lying on the terminal rat of $-270^\circ$ is	A. (1,0) B. (0,-1) C. (0,1) D. (-1,0)
2	Question Image	
3	The mid point of the line segment joining the points (4,0) and (0,4) is	A. (4,4) B. (2,2) C. (-4,-4) D. (-2,-2)
4	$a \cdot a^{-1} = a^{-1} \cdot a = 1$ is a	A. Commutative law of multiplication B. Multiplicative identity C. Associative law of multiplication D. Multiplicative inverse
5	if $f(x) = x^3 - 3x^2 + 5x - 1$ , then $f(-\sqrt{2}) =$	A. $7 + 7\sqrt{2}$ B. $3 + 3\sqrt{2}$ C. $-7 - 7\sqrt{2}$ D. $-3 - 3\sqrt{2}$
6	Question Image	
7	Let $P(x_1, y_1)$ and $Q(x_2, y_2)$ be two points in the co-ordinate plane. Let $d$ = distance between P and Q	
8	The curve $f(x,y) = 0$ has a central symmetry if	A. $f(-x,-y) = f(x,y)$ B. $f(x,-y) = f(x,y)$ C. $f(-x,y) = f(x,y)$ D. $f(-x,-y) \neq f(x,y)$
9	The unit vector along x-axis is	D. none of these
10	The slope of the normal at $(5 \cos \theta, 5 \sin \theta)$ to the circle. $x^2 + y^2 = 25$ is:	A. $\tan \theta$ B. $\cos \theta / \sin \theta$ C. $-\cot \theta$ D. $-\tan \theta$
11	Question Image	A. $2x$ B. $3x^{>2}</sup>$ C. 1 D. 0
12	Question Image	A. Reflexive property B. Symmetric property C. Cancellations property w.r.t. addition D. Transitive property
13	$\forall x,y \in \mathbb{R}$ and $x > 0, y > 0$ , if $x > y$	D. None of these
14	Question Image	A. 0 B. -1 C. $1/2$ D. 1
15	Question Image	
16	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
17	If $z_1 = 1 + 2i, z_2 = 3 + 4i$ then	A. $z^{>1}</sub> >$ $z^{>2}</sub>$ B. $z^{>1}</sub> \cdot z^{>2}</sub> =$ $z^{>2}</sub>$ C. $z^{>1}</sub> \cdot z^{>2}</sub> <$ $z^{>2}</sub>$ D. None of these
		A. nth term B. ...

18 An infinite sequence has no

- B. Last term
- C. Sum
- D. None of these

19 Question Image

20 The sum of all even numbers less than 100 is

- A. 2450
- B. 2352
- C. 2272
- D. 2468