

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<a href="#">Question Image</a>	
2	Three right angles is the angle of measure	A. 270° B. 180° C. 90° D. 270'
3	If $\theta$ be angle between $u, v$ and $u, v$ determine the sides of a triangle then the third side opposite to angle $\theta$ has length	A. $ u+v $ B. $ u + v $ C. $ u-v $ D. $ u - v $
4	<a href="#">Question Image</a>	A. 0 B. 1 C. -1 D. undefined
5	Which one is not defined $\forall n \in \mathbb{Z}^+$	A. $-n!$ B. $n!$ C. $(-n)!$ D. $n!+0!=n!+1$
6	The set of all positive even integers is	A. Not a group B. A group w.r.t. subtraction C. A group w.r.t. division D. A group w.r.t. multiplication
7	Geometric mean between $a$ and $b$ is	
8	The maximum value of $Z = 3x + 4y$ subjected to the constrains $x + y \leq 40, x + 2y \leq 60, x \geq 0$ and $y \geq 0$ is	A. 120 B. 100 C. 140 D. 160
9	<a href="#">Question Image</a>	
10	The equation of the sphere passing thro' $(0, 0, 0), (a, 0, 0), (0, b, 0), (0, 0, c)$ is	A. $x^2 + y^2 + z^2 + 2ax + 2by + 2cz = 0$ B. $x^2 + y^2 + z^2 + 2ax - 2by - 2cz = 0$ C. $x^2 + y^2 + z^2 - ax - by - cz = 0$ D. $x^2 + y^2 + z^2 + ax + by + cz = 0$
11	<a href="#">Question Image</a>	
12	Which of the following ordered pair is a solution of the inequality $x+2y < 6$ ?	A. (2,3) B. (2,2) C. (6,0) D. (1,1)
13	A function from $A$ to $B$ is denoted by	A. $f: A \rightarrow B$ B. $f: B \rightarrow A$ C. $f: \rightarrow A : B$ D. $f \rightarrow A \rightarrow B$
14	<a href="#">Question Image</a>	
15	The integral of $3x^5 dx$ is:	A. $15x^4$ B. $x^6/2$ C. $1/6x^5$ D. $x^5/\ln 3$
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	<a href="#">Question Image</a>	D. none of these
18	The solution set of $\sin x + \cos x = 0$ is	

19 The null vector is regarded to be perpendicular to

- A. Every vector
- B. In some cases
- C. Both a b
- D. None

20 Question Image

- A. 6, -12, -18
- B. -6, 4, 9
- C. -6, -4, -9
- D. -6, 12, 18