

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	
2	<input type="text" value="Question Image"/>	
3	The nth term of a G.P. is	A. $a^{n-1}r^n$ B. $a^{n-1}r^{n+1}$ C. $a^{n-1}r^{n-1}$ D. $a^{n-1}r^{-n}$
4	The modulus of a vector $\vec{i} + \vec{j} + \vec{k}$ is:	A. $\sqrt{3}$ B. 1 C. $\sqrt{2}$ D. $\infty$
5	Which symbolic notation represent unary operation ?	A. - B. $\vee$ C. $\wedge$ D. $\leftrightarrow$
6	<input type="text" value="Question Image"/>	A. 110 B. 220 C. 1320 D. None of these
7	<input type="text" value="Question Image"/>	
8	<input type="text" value="Question Image"/>	
9	What is the value of $\cos^{-1}(1/2)$ ?	A. $\pi/3$ B. $\pi/4$ C. $3\pi/2$ D. $\pi/6$
10	The eccentricity of ellipse becomes zero, then it takes the form of:	A. a parabola B. a straight line C. a circle D. None of these
11	The set $(\mathbb{Z}, +)$ forms a group	A. Forms a group w.r.t. addition B. Non commutative group w.r.t. multiplication C. Forms a group w.r.t multiplication D. Doesn't form a group
12	The equation $ x + 4  = x$ has solution	A. $x = -2$ B. $x = 2$ C. $x = -4$ D. $x = 4$
13	The set $\{0, -1\}$ hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
14	An equation which hold good for all values of the variables is called	A. Identity B. fraction C. mixed form D. Partial equation
15	<input type="text" value="Question Image"/>	
16	$45^\circ =$ _____	
17	An observer on the top of a cliff 200 m above the sea level, observes the angles of depression of two ships on opposite sides of the cliff to be $45^\circ$ and $30^\circ$ , respectively. The distance between the ships if the line joining them points to the base of cliff is	
18	In $\mathbb{R}$ the left cancellation property w.r.t addition is	
19	The square matrix A is skew-symmetric when $A^t =$	A. -B B. -C C. -A D. -D

20

The value of the expression  $3 \cos\theta + 4 \sin\theta$  lie between

- A. -7 and 7
- B. -25 and 25
- C. -1 and 1
- D. -5 and 5