

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$2\pi$ is the period of	A. $\sin x$ B. $\tan x$ C. $\cot x$ D. all circular function
2	Question Image <input type="text"/>	A. $a-b=ab$ B. $ab=a$ C. $a+b=ab$
3	If a plane passes through the vertex of a cone then the intersection is	A. an ellipse B. a hyperbola C. a point circle D. a parabola
4	The longer side of a parallelogram is 10 cm and the shorter is 6 cm. If the longer diagonal makes an angles $30^\circ$ with the longer side, the length of the longer diagonal is	
5	if the value of the sphere, $v = \frac{4}{3}\pi r^2$ , then the which of the following statement is true?	A. $r$ is the function of $v$ B. $v$ is the function of $r$ C. $\pi$ is independent variable D. None of these
6	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
7	$\cot \theta = \sin 2\theta$ if $\theta =$	
8	$(n + 2) (n + 1) n =$ _____	
9	$\frac{1}{3}$ is _____	A. A prime number B. An integer C. A rational number D. An irrational number
10	Three consecutive terms of a progression are 30, 24, 20. The next terms of the progression is	
11	For all points $(x,y)$ in third quadrant	A. $x > 0, y < 0$ B. $x > 0, y > 0$ C. $x < 0, y < 0$ D. $x < 0, y > 0$
12	$30^\circ =$ _____	
13	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
14	What is the number of elements of the power set of $\{0, 1\}$	A. 1 B. 2 C. 3 D. 4
15	An A.P. consists of $n$ (odd terms) and its middle term is $m$ . then the sum of the A.P. is	A. $2 mn$ B. $\frac{1}{2} mn$ C. $mn$ D. $mn^2$
16	The line $3x - 4y = 0$	A. Is a tangent to the circle $x^2 + y^2 = 25$ B. Is a normal to the circle $x^2 + y^2 = 25$ C. Does not meet the circle $x^2 + y^2 = 25$ D. Does not pass thro' the origin
17	$i^{101} =$	A. $i$ B. $i^2$ C. $-i$ D. $-1$

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18	Multiplicative inverse of "1" is	A. 0 B. $\pm 1$ C. 1 D. $\{0,1\}$
19	Question Image <input type="text"/>	
20	The probability that the sum of dots appearing in two successive thrown of two dice, in every time 7 is	A. $1/5$ B. $1/36$ C. $1/7$ D. $1/63$

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