

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	C. $\ln f(x) + c$ D. $f(x) - c$
3	The general equation of circle $x^3 + y^3 + 2gx + 2fy + c = 0$ , contains:	A. Three independent variables B. Two independent conntants C. Three independent parameters D. Three independent constants
4	Question Image	A. Right angled B. Obtuse angled C. Isosceles D. Equilateral
5	Range of $3 \sin x$ is _____	A. $[-3, 3]$ B. $[-1, 1]$ C. R D. None of these
6	The distance between two points $P(x_1, y_1)$ and $Q(x_2, y_2)$ is	
7	$i^{101} =$	A. i B. $i^{<sup>2</sup>}$ C. -i D. -1
8	Question Image	A. $x = f(y)$ B. $y = f(x)$ C. $x = f(x)$ D. $y = f(y)$
9	The general term of the A.P. is	A. $a_{<sub>1</sub>+ (n - 1) d$ B. $n + (a_{<sub>1</sub>- 1) d$ C. $d + (n - 1) a_{<sub>1</sub>}$ D. None of these
10	The decimal fraction in which we have finite number of digits in its decimal part is called.	A. recurring decimal fraction B. Non terminating faction C. Non recurring fraction D. terminating decimal fraction
11	If $n \in \mathbb{Z}^+$ then $(a+x)^n$ is $a/an$	A. Finite series B. Convergent series C. Infinite series D. Divergent series
12	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of 53 to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
13	The position vector of any point in space is	
14	$\operatorname{Cosec} 60^\circ =$ _____	
15	Question Image	
16	$\tan(\alpha - \beta) =$	
17	A committee consists of 9 experts taken from three institutions A, B, and C, of which 2 are from, A, 3 form B and 4 from C. If three experts resign, then the probability that they belong to different institutions is	A. $1 / 729$ B. $1 / 24$ C. $1 / 21$ D. $2 / 7$
18	The fifth term of the sequence $a_n = 2n + 3$ is _____	A. 13 B. -13 C. 8 D. 3
19	The 10th common term between the series $3+7+11+\dots$ and $1+6+11+\dots$ is	A. 191 B. 193 C. 211 D. 213

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Question Image