

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. abc C. 1/abc D. None of these
2	Question Image	
3	Question Image	A. $e^{x^2} + c$ B. $e^{-x^2} + c$ C. $x e^{x^2} + c$ D. not possible
4	A cone is generated by all lines through a fixed point and the circumference of	A. a Circle B. an ellipse C. a Hyperbola D. None of these
5	Question Image	A. $\sec x \tan x$ B. $-\operatorname{cosec} x \cot x$ C. $\sec^2 x$ D. $-\sin x$
6	Question Image	
7	$i^2 =$	A. 1 B. 2 C. -1 D. 0
8	The set $\{0, -1\}$ hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
9	Question Image	
10	Question Image	
11	Question Image	
12	5 unbiased coins are tossed simultaneously. The probability of getting at least one head is	A. $1/32$ B. $31/32$ C. $1/16$ D. None of these
13	Question Image	A. A natural number B. A rational number C. An irrational number D. A whole number
14	$\sin[\cot^{-1}\{\cos(\tan^{-1}x)\}] =$	
15	$\sqrt{23}$ is	A. A rational number B. An irrational number C. An even integer D. A factor of 36
16	One degree is denoted by	A. $1^{\circ}$ B. 1' C. 1" D. 1 rad
17	Let $S_n$ denote the sum of the first $n$ terms of an A.P. If $S_{2n} = 3 S_n$ ; $S_n$ is equal to	A. 4 B. 6 C. 8 D. 10
18	Question Image	
19	If the 4th term in the expansion of $(px + x^{-1})^m$ is 2.5 for all $x \in R$ , then	
20	Question Image	

