

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. -1 C. 1 D. -2
2	There are _____ types of rational fraction	A. Three B. Four C. Five D. Two
3	$\int x/\sin^2 x \, dx$ is equal to:	A. $x \cot x + \ln \sin x $ B. $-x \cot x - \ln \sin x $ C. $x \cot x - \ln \sin x $ D. $x \tan x - \ln \sec x $
4	One second is denoted by	A. $1^{<sup>0</sup>}$ B. $1'$ C. $1''$ D. 1 rad
5	Question Image	
6	$\int \sin(ax+b) \, dx$ is equal to:	A. $1/2a \cos(ax+b)$ B. $-1/a \cos(ax+b)$ C. $1/a \cos(ax+b)$ D. $1/a \ln(ax+b)$
7	For any two sets A and, $A \subseteq B$ if	A. $x \in A \Rightarrow x \in B$ B. $x \notin A \Rightarrow x \notin B$ C. $x \in A \Rightarrow x \notin B$ D. None of these
8	$\tan(\cot^{-1}x)$ is equal to	A. $\cot(\tan^{-1}x)$ B. $\tan x$ C. $\sec x$ D. None of these
9	Question Image	
10	How many arrangements of the letters of the word PAKISTAN cab be made	
11	If the vertex of the parabola is the origin and directrix is $x+5 = 0$ . then its latus rectum is:	A. 10 B. 5 C. 0 D. 20
12	If there are m rows and n columns in a matrix then its order is	A. $m \times n$ B. $m \times m$ C. $n \times n$ D. $n \times m$
13	Question Image	
14	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
15	Question Image	A. 0 B. 1
16	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these
17	Question Image	
18	Question Image	D. none of these
19	Question Image	A. 16 / 7 B. 6 / 17 C. 7 / 16 D. None of these

