

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The span of a standard parabola depends upon	A. x B. a C. y D. y <sup>2</sup>
3	The period of $\cot 8x$ is	A. $\pi/10$ B. $9\pi/7$ C. $\pi/9$ D. $\pi/8$
4	The area under the curve $y = 1/x^2$ between $x = 1$ and $x = 4$ is:	A. -25 B. 0.75 C. -0.35 D. -10
5	Question Image	
6	Question Image	A. One-to-one and onto B. One-to-one but not on to C. Onto but not one-to-one D. Neither one-to-one nor onto
7	If $n$ is any positive integer, then $2+4+6+\dots+2n =$	A. $2^{n+1}$ B. $2^{n+1} + 1$ C. $n^{n+1} + 1$ D. $n(n+1)$
8	The trigonometric function are continuous whenever	A. They are defined B. their limit exist C. Their period is given D. All are incorrect
9	Question Image	
10	The value of $\sin 28^\circ \cos 17^\circ + \cos 28^\circ \sin 17^\circ$ is	
11	The only function which is both even and odd is	A. $f(x) = \alpha$ B. $f(x) = x$ C. $f(x) = 0$ D. Both A & B
12	Question Image	
13	The solution of the equation $\cos^2 \theta + \sin \theta + 1 = 0$ lies in the interval	
14	The term involving $x^4$ the expansion $(3-2x)^7$ is	A. $217x^4$ B. $15120x^4$ C. $313x^4$ D. $-25x^4$
15	Question Image	A. 8 B. $1/56$ C. 56 D. None of these
16	The interval in which $f(x) = x^3 - 6x^2 + 9x$ is increasing	A. $1 < x < 3$ B. $x < 1$ and $x > 3$ C. $x \geq 1$ and $x \leq 3$ D. $-\infty < x < \infty$
17	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
18	Question Image	
19	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods

