

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $f(x) =  x $ , then $(0,0)$ is the	A. Critical point B. Inflection point C. Stationary point D. None of these
2	Which of the following is a quadrantal angle	A. $30^\circ$ B. $45^\circ$ C. $60^\circ$ D. $90^\circ$
3	In the expansion of $(a + x)^n$ the general term $T_{r+1}$ is	
4	The two parts into which 57 should be divided so that their product is 782 are	A. 43,14 B. 34,23 C. 33,24 D. 44,13
5	Question Image	A. $\sec 5x + c$ B. $-\sec 5x + c$
6	If $A(a,b)$ lies on $3x + 2y = 13$ and point $B(b,a)$ lies on $x - y = 5$ then equation of AB is	A. $x - y = 5$ B. $x + y = 5$ C. $x + y = -5$ D. $5x + 5y = 21$
7	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. hexagon
8	Question Image	
9	Question Image	A. A B. -A C. $A^{\sup}t^{\sup}$ D. $A^{\sup}-^{\sup}$
10	The domain of the function $y = \sin x$ , is	A. $-\pi/2 \leq x \leq \pi/2$ B. $\pi/2 \leq x \leq \pi$ C. $-2\pi \leq x \leq 2\pi$ D. $-1 \leq x \leq 1$
11	A man of height 6 ft observes the top of a tower and the foot of the tower at angles of $45^\circ$ and $30^\circ$ of elevation and depression respectively. The height of the tower is	
12	Question Image	D. none of these
13	A kite flying at a height of 67.2 m is attached to a fully stretched string inclined at an angle of $53^\circ$ to the horizontal, the length of the string	A. 62m B. 82m C. 73m D. 57m
14	If $f(x) = x^2 - x$ then $f(2)$ is	A. 4 B. 6 C. 2 D. 0
15	Question Image	A. $ab = -1$ B. $ab = 1$ C. $ab = 2$ D. None
16	Z is a	A. Infinite set B. Finite set C. Singleton set D. Set of all integers
17	For all points $(x,y)$ on x-axis	A. x is positive B. x is negative C. y = 0 D. y is negative

18	$n!/(n-1)! =$	B. $n!$ C. $(n-1)!$ D. $0!$
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19	Question Image
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20	The value of $\sin [\arccos (-1/2)]$ is
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