

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The third term of the sequence $a_n = (-1)^{n-1}(n-7)$ is _____	A. 8 B. 4 C. -4 D. 8
2	The common point to four standard parabolas	A. Focus B. Centre C. Vertex D. P(x,y)
3	Question Image	A. 1 B. 2 C. 3 D. 4
4	$150^\circ =$ _____	
5	For a positive integer n	A. $n! = n(n+1)$ B. $n! = n(n+1)!$ C. $n! = n(n-1)$ D. $n! = n(n-1)!$
6	The point lying on the terminal rat of $-270^\circ$ is	A. (1,0) B. (0,-1) C. (0,1) D. (-1,0)
7	The period of $ \sin 2x $ is	A. $\pi/2$ B. $-\pi/2$ C. $\pi$ D. $\pi/3$
8	Question Image	A. 4 B. 3 C. 2 D. 1
9	The modulus of $12-5i$ is:	A. 7 B. 13 C. $\sqrt{7}$ D. 119
10	All letters of the word "AGAIN" are permuted in all possible ways and the words so formed (with or without meaning) are written as in dictionary, then the 50th word is	A. NAAGI B. NAAIG C. IAANG D. INAGA
11	Question Image	A. parallel vectors B. perpendicular vectors C. concurrent vectors D. collinear vectors
12	The largest possible domain of the function: $y = \sqrt{x}$ is:	A. $(0, \infty)$ B. 12 C. $(3, 12)$ D. $(3, \infty)$
13	If A is a subset of B and B contains at least one element which is not an element of A, then A is said to be	A. Improper subset of B B. Super set of B C. Proper subset of B D. None of these
14	In polar form of complex number $r =$	
15	Question Image	
16	Question Image	
17	Question Image	A. $2^{x \ln x}$ B. $2^{x \ln x}$ C. $2^{x \ln x}$
18	Question Image	

19	If $f:A \rightarrow B$ is an injective function and second elements of no two of its ordered pairs are equal, then $f$ is called	A. 1-1 and onto B. Bijective C. 1-1 and into D. None of these
20	In school there are 150 students Out of these 80 students enrolled for mathematics class 50 enrolled for English class and 60 enrolled for Physics class The student enrolled for English cannot attend any other class but the students of mathematics and Physics can take two courses at a time Find the number of students who have taken both physics and mathematics.	A. 40 B. 30 C. 50 D. 20