

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The number of 5-digit number that can be formed from the digits 1,2,4,6,8, when 2 and 8 are never together is	A. 72 B. 48 C. 144 D. 20
2	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
3	Question Image	
4	Period of Sine and Cosine function is	A. $\pi$ B. $2\pi$ C. $\pi/2$ D. $\pi/4$
5	The period of $\sin^2 \theta$ is	A. $\pi$ B. $\pi/2$ C. $2\pi$ D. $\pi/4$
6	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
7	Question Image	
8	$2\pi + \theta$ will have terminal side in Quad	A. I B. II C. III D. IV
9	The intercepts of the plane $2x - 3y + 4z = 12$ on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5
10	The solution set of the equation $4 \cos^2 x - 3 = 0$ is	D. none of these
11	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
12	There is no element common in	A. N and W B. E and W C. N and O D. Q and Q'
13	5th term of a G.P. is 2, then the product of first 9 terms is	A. 256 B. 128 C. 512 D. None of these

14	If S is a sample space and event set $E = S$ then $P(E)$ is	A. $>0$ B. 1 C. $<1$ D. 0
15	Question Image	A. $\sec x \tan x$ B. $-\operatorname{cosec} x \cot x$ C. $\sec^2 x$ D. $-\sin x$
16	Identity w.r.t intersection in a power set of any set is	A. $\emptyset$ B. Set itself C. Singleton set D. $\{0\}$
17	A statement which is either true or false is called	A. Induction B. Deduction C. Proposition D. Logic
18	$\cos(\cos 4\pi/3) =$	A. $\pi/2$ B. $\pi/3$ C. $2\pi/3$ D. $-\pi/3$
19	The corner point of the boundary lines, $x-2y$ $2x + y = 2$ is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
20	Question Image	