

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
2	Power set of difference set N-W is	A. Empty set B. Infinite set C. Singleton set D. $\{0, \emptyset\}$
3	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
4	If $3x^4 + 4x^3 + x^5$ is divided by $x+1$ , which of the following is the remainder	A. 7 B. -2 C. 6 D. 1
5	If $-1 < x < 0$ , which of the following statements must be true?	A. $x^2 < x^3$ B. $x^2 > x^3$ C. $x^2 < x^3$ D. $x^2 > x^3$
6	Question Image	
7	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
8	Three unbiased coins are tossed. Then the probabilities of getting two heads is	A. $\frac{3}{8}$ B. $\frac{1}{8}$ C. $\frac{1}{4}$ D. None of these
9	Every prime number is also	A. Rational number B. Even number C. Irrational number D. Multiple of two numbers
10	If $f(x) =  x $ , then (0,0) is the	A. Critical point B. Inflection point C. Stationary point D. None of these
11	Question Image	A. A B. B C. A' D. None of these
12	The distance of the point (a,b) from y-axis is	A. a B. b C. a + b
13	$\sqrt{11}$ is	A. an irrational number B. Rational number C. odd number D. Negative number
14	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
15	Question Image	

16  $\cos \theta/2 =$

17 If  $Z = (1, 2)$ , then  $Z^{-1} = ?$

- A. (0.2, 0.4)
- B. (-0.2, 0.4)
- C. (0.2, -0.4)
- D. (-0.2, -0.4)

18

19  $(n + 2)(n + 1)n$  in factorial form is

20