

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$2x = 3$ is a conditional equation it is true for	A. 2 B. 3 C. $3/2$ D. $2/3$
2	Question Image	
3	Question Image	A. N B. r C. 2r D. <span style="color: green;">&lt;span style="color: rgb(34, 34, 34); font-family: &amp;quot;Times New Roman&amp;quot;; font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);"&gt;&lt;i&gt;π&lt;/i&gt;&lt;/span&gt;</span>
4	The sets {1, 2, 4} and {4, 6, 8, 10} are	A. Equal sets B. Equivalent sets C. Disjoint sets D. Over lapping sets
5	Question Image	
6	$(0.90)^{1/2}$ is equal to	A. 0.99 B. 0.90 C. 0.80 D. 0.88
7	If the roots of $x^2 + ax + b = 0$ are non-real, then for all real x, $x^2 + ax + b$ is	A. Negative B. Positive C. Zero D. Nothing can be said
8	The distance of a moving particle at any instant t is $x = 3t^2 + 1$ then velocity of particle at t = 10 is	A. 50 cm/sec B. 60 cm/sec C. 61 cm/sec D. None of these
9	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
10	If a statement S(n) is true for n = 1 and the truth of S(n) for n = k implies the truth of S(n) for n = k + 1, then S(n) is true for all	A. Real numbers n B. Integers n C. Positive integers n D. None of these
11	Question Image	A. The law of sines B. The law of cosines C. The law of tangents D. None of these
12	Question Image	
13	Question Image	A. Addition B. Subtraction C. Multiplication D. None of these
14	The set of whole numbers is subset of	A. The set on integers B. The set of natural numbers C. {1, 3, 5, 7, ...} D. The set of prime numbers
15	l is not	A. Real number B. Natural number C. Prime Number D. Whole Number
16	The Principal value of $\sin^{-1}(-1/1/2)$	A. $\pi/2$ B. $-\pi/2$ C. $\pi$ D. $-\pi$

C.  $\pi$

D.  $-\pi$

17 Question Image

18 If  $T = \{2, 4, 6, 8, 10, 12\}$ , then

- A. T = (First six natural numbers)
- B. T = (First six odd numbers)
- C. T = (First six real numbers)
- D. T = (First six even numbers)

19 The range of the tangent function is

- A. all real numbers
- B.  $-1 \leq x \leq 1$
- C. natural number
- D.  $z^{\sup} + \sup$

20 The distance of point P(x,y) from focus in a parabola  $y^2 = 4ax$ , is:

- A. 2a
- B. a
- C.  $x + a$
- D.  $x - a$