

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. An empty set B. Universal set C. A singleton set D. None of these
2	$(x-1)$ is a factor of	A. $2x^3 - 3x^2 + 9$ B. $2x^3 - 5x - 8$ C. $48x^2 - 46x - 9$ D. $x^9 - 1$
3	Question Image	
4	Question Image	
5	If a polynomial $P(x)$ is divided by $x + a$ , then the remainder is	A. $P(a)$ B. $P(-a)$ C. $P(0)$ D. None of these
6	Question Image	A. G.P B. H.P. C. A.P. D. No particular sequence
7	If $n$ is any positive integer then $n^2 > n + 3$ for	
8	A line joining two distinct points on a parabola is called a _____ of the parabola.	A. Chord B. Tangent C. Latus rectum D. directrix
9	If $a > 0, b > 0, c > 0$ , then the roots of the equation $ax^2 + bx + c = 0$ are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
10	$7^{2n} + 3^{n-1} \cdot 2^{3n-3}$ is divisible by	A. 24 B. 25 C. 9 D. 13
11	Which is an explicit function	A. $y = x^2 + 2x - 1$ B. $x^2 + xy + y^2 = 2$ C. $x^2 + y^2 = xy + 2$ D. All are
12	Question Image	A. $2x + 3$ B. $x^2 + 3 + c$
13	If $n$ is a negative integer $n!$ is	A. 1 B. 0 C. Unique D. Not defined
14	$A = B$ iff	A. All elements of A also the elements of B B. A and B should be singleton C. A and B have the same number of elements D. If both have the same element
15	Question Image	
16	If the angle between two vectors with magnitude 6 and 2 is $60^\circ$ when their scalar product is	A. 12 B. 6 C. 3 D. 0
17	Question Image	A. $(2 \times 4)$ B. $(2 \times 7)$ C. $(2 \times 3)$ D. $(2 \times 2)$

D. (1x2)

18 Question Image

19 Question Image

- A. 9
- B. -9
- C. 0
- D. 1

20 The set of all positive even integers is

- A. Not a group
- B. A group w.r.t. subtraction
- C. A group w.r.t. division
- D. A group w.r.t. multiplication