

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	An even function is symmetric about the line	A. $y = x$ B. $x = 0$ C. $y = -x$ D. $y = 0$
2	Two circle $x^2 + y^2 + 2x - 8 = 0$ and $x^2 + y^2 - 6 + 6x - 46 = 0$ :	A. touch internally B. do not intersect C. touch externally D. None of these
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 56 B. 7 C. 8 D. 8/7
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. direction ratios B. direction cosines C. direction angles D. none of these
5	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set $X \cup Y = 54$ , then number of elements in set $X \cap Y =$	A. 4 B. 3 C. 2 D. 1
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	D. none of these
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. The law of sines B. The law of tangents C. The pythagorus theorem D. None of these
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then $a^2, q^2, b^2$ are in	A. A.P. B. G.P. C. H.P. D. None of these
10	If $x + y + 1 = 0$ touches the parabola $y^2 = \lambda x$ , then $\lambda$ is equal to	A. 2 B. 4 C. 6 D. 8
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	The cube roots of 8 are	
13	1 degree = _____	A. 0.00175 rad B. 0.175 rad C. 0.0175 rad D. 1.75 rad
14	How many arrangements of the letters of the word MATHEMATICS can be made	
15	$\cos 60^\circ =$ _____	A. 1 B. 2 C. 1/2 D. 3
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a^{<sub>1</sub>} + a^{<sub>2</sub>}$ B. $a^{<sup>2</sup>} <sub>1</sub> + a^{<sup>2</sup>} <sub>2</sub>}$
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
18	The complement of set A relative to universal set U is the set	
19	The set $\{ \{a, b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
		A. have identity element

- B. is commutative
  - C. have inverse of each element
  - D. None of these
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