

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. The law of sines B. The law of cosines C. The law of tangents D. None of these
2	The probability of getting a number between 1 and 100 which is divisible by 1 and itself if only is	A. 1 / 4 B. 1 / 2 C. 3 / 4 D. 25 / 98
3	Question Image	
4	The point R dividing internally the line joining the points P(x <sub>1</sub> , y <sub>1</sub> ) and Q(x <sub>2</sub> , y <sub>2</sub> ) in the ratio K <sub>1</sub> : K <sub>2</sub> has the coordinates	
5	The maximum value of $\sin\theta\cos\theta$ is	A. 1 B. 1/2 C. 1/4 D. 1/6
6	A sequence is a functions whose domain is a subset of the set of	A. Natural numbers B. Real numbers C. Whole numbers D. Rational numbers
7	The equation of the plane which bisects the line joining (2, 3, 4) and (6, 7, 8) is	A. $x + y + z - 15 = 0$ B. $x - y + z - 15 = 0$ C. $x - y - z - 15 = 0$ D. $x + y + z + 15 = 0$
8	the latus rectum of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $y = -a$ C. $x = -a$ D. $y = 0$
9	The study conics, pappus used the method of:	A. analytic geometry Euclidean B. solid geometry C. Greek mathematicians D. None of these
10	Question Image	
11	$\tan(-135^\circ) = \theta$	A. 0 B. 1 C. 2 D. 3
12	Question Image	D. none of these
13	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a b D. None
14	A conditional is regarded as false only when the antecedent is true and consequent is	A. True B. False C. Known D. Unknown
15	For an A.P common difference d	A. Can be zero B. May or may not zero C. Cannot be zero D. None of these
16	The sum even binomial coefficient of $(3+2x)^5$ is _____ term	A. 16 B. 30 C. 8 D. 32
17	Question Image	
18	For each even natural number n ( $n \geq 4$ ) is divisible by	A. 6 B. 3

18 For each even natural number  $n$  ( $n-1$ ) is divisible by

- C. 4
- D. 8

19  $(a^{-1})^{-1} =$

- A.  $a^{-1}$
- B.  $a$
- C.  $-a$
- D. None of above

20 

- A.  $a \sec(ax + b) + c$
- B.  $-a \sec(ax + b) + c$