

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Roots of the equation $2x^2 - 7x + 3 = 0$ are	A. Rational B. Irrational C. Complex D. None of these
2	Question Image	
3	The period of the function $\csc x/4$ is	A. $4x$ B. $\pi/4$ C. $8\pi$ D. $\pi/8$
4	$10 = \underline{\hspace{2cm}}$	A. 1.5 rad B. 0.5 rad C. 0.175 rad D. None of these
5	If $n$ is a negative integer $n!$ is	A. 1 B. 0 C. Unique D. Not defined
6	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
7	Question Image	
8	Question Image	
9	If one end of the diameter of the circle $x^2 + y^2 - 5x + 3y - 22 = 0$ is (3,4) the other end is:	A. (2,7) B. (-2,-7) C. (-2,7) D. (2,-7)
10	The central angle of an arc of a circle whose length is equal to the radius of the circle is called one	A. Degree B. Second C. Minute D. Radian
11	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
12	The multiplicative inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
13	The probability that a slip of numbers divisible by 4 is picked from the slips of number 1,2,3,4,.....10 is	A. $1/5$ B. $2/5$ C. $1/10$ D. $3/10$
14	Question Image	
15	Question Image	
16	The equation $x^2 + y^2 + 2g + 2fy + c = 0$ represents a circle whose centre is :	A. (g,f) B. (-g,-f) C. (2g ,2f) D. (-2f ,-2g)
17	Question Image	
18	Period of $\sin x$ is	A. $y = \log x$

19 Inverse of the function  $y=10x$  is

- B.  $y=\ln x$
- C.  $x=10y$
- D.  $x=10y$

20 The points  $(5, -4, 2), (4, -3, 1), (7, -6, 4), (8, -7, 5)$  are vertices of a

- A. Square
- B. Parallelogram
- C. Rectangle
- D. Rhombus