# Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
|---|---|---|
| 1 | If the focus lies on the y-axis with coordinates f(0,a) and directrix of the parabola is y = -a, the equation of parabola is: | A. y<sup>2</sup> = -4 ax<br>B. x<sup>2</sup> = 4ay<br>C. x<sup>2</sup> = -4ay<br>D. y<sup>2</sup> = 4ax |
| 2 | The value of x and y when (x + iy)2 = 5 - 4i | A. x = 2, y = -1<br>B. x = -2, y = 1<br>C. x = 2, y = -i<br>D. x = 2, y = 2 |
| 3 | Which of the following sets is finite | A. The set of natural numbers between 3 and 10<br>B. The set of rational numbers between 3 and 10<br>C. The set of real numbers between 0 and 1<br>D. The set of rational numbers between 0 and 1 |
| 4 | A person standing on the bank of a river finds that the angle of elevation of the top of a tower on the opposite bank is 45°. then which of the following statements is correct? | A. Breadth of the river is twice the height of the tower<br>B. Breadth of the river an the height of the tower are the same<br>C. Breadth of the river is half of the height of the tower<br>D. None of these |
| 5 | Question Image | A. 2<br>B. 6 |
| 6 | How many types of an equation | A. 1<br>B. 3<br>C. 2<br>D. None |
| 7 | Question Image | |
| 8 | Question Image | A. π<br>B. π / 2<br>C. π / 3<br>D. π / 4 |
| 9 | Question Image | |
| 10 | The 60th part of one minute is called | A. Degree<br>B. Second<br>C. Radiam<br>D. None of these |
| 11 | $w^{29}$= _____ | A. 0<br>B. 1<br>C. w<br>D. w<sup>2</sup> |
| 12 | Period of sin 3x is _____ | |
| 13 | Question Image | A. 2<br>B. 4<br>C. 3<br>D. 16 |
| 14 | (x3-1/x)12 | A. 295<br>B. 495<br>C. 395<br>D. 722 |
| 15 | The sum of all odd numbers between 100 and 200 is | A. 6200<br>B. 7500<br>C. 6500<br>D. 3750 |

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| 16 | Cos-1(x)= | A. cos x<br>B. x<br>C. tan-1(-x)<br>D. Sec-1 (1/x) |
| 17 | How many 3 digit numbers can be formed by using each one of the digit 2, 3, 5, 7, 9 only once? | A. 15<br>B. 24<br>C. 60<br>D. 120 |
| 18 | The graph of a quadratic function is | A. Circle<br>B. Ellipse<br>C. Parabola<br>D. Hexagon |
| 19 | If the domain of sequence is finite set then the sequence is called | A. geometric sequence<br>B. infinite sequence<br>C. finite sequence<br>D. arithmetic sequence |
| 20 | The point _____ is in the solution of the inequality 2x - 3y > 5 | A. (1, -1)<br>B. (2,2)<br>C. (0,0)<br>D. (3,0) |