

Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
|----|---|--|
| 1 | $x^3 + 2x^2 - 3x + 5$ is | A. An equation B. A polynomial C. Proper rational fractions D. Improper rational fractions |
| 2 | Question Image | |
| 3 | Question Image | |
| 4 | The slope of the normal at the point (at 2 , 2at) of the parabola y^2 = 4ax is | A. 1/t B. t Ct D1/t |
| 5 | For all points (x,y) in fourth quadrant | A. x > 0 , y < 0 B. x > 0 , y > 0 C. x < 0 , y < 0 D. x < 0 , y > 0 |
| 6 | The points (x, y) which satisfy a linear inequality in two variables x and y from its | A. domain B. range C. solution D. none of these |
| 7 | Range of $\sec \theta$ is | A. Z - {x -1 < x < 1} B. W - {x -1 < x < 1} C. R - {x -1 < x < 1} D. R |
| 8 | General solution of $1 + \cos x = 0$ is | |
| 9 | Question Image | |
| 10 | Question Image | A. Free vector B. Null vector C. Unit vector D. None of these |
| 11 | If w+w2 is a root of $(x+1)(x+2)(x+3)(x+4) = k$, then | A. k=0 B. k=1 C. k=w D. k=w2 |
| 12 | The sum of the cubes of three consecutive natural number is divisible by | A. 9 B. 6 C. 5 D. 10 |
| 13 | In the expansion of $(a + x)^n$ the sum of exponents of a and x in each term of the expansion is | A. n + 1 B. n - 1 C. n D. 2n |
| 14 | An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is | A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10 |
| 15 | If either A = 0 or B =0,then Ax2 +By2 +2Gx +2Fy +c =0 represents a | A. Circle B. Hyperbola C. Ellipse D. Parabola |
| 16 | Question Image | |
| 17 | How many arrangements of the letters of the word ADDING can be made | |
| 18 | Question Image | |
| 19 | Question Image | A. 6x - 2 + c B. x ³ - x ² + x + c C. 6x - x ² + c |

| | | D. 6x ³ - x ² + c |
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| 20 | The third term of a G.P. is 4, The product of first five terms is | A. 43 B. 45 C. 46 D. None of these |