

Mathematics General Science Test Medium Mode

| Sr | Questions | Answers Choice |
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| 1 | Question Image | A. A BA C. A ^t D. A ⁻ |
| 2 | If a, β are the roots of the equation x2 - 8x + p = 0 and a2 + β 2= 40,then value of p is | A. 8 B. 12 C. 10 D. 14 |
| 3 | $\sin^{-1} x =$ | A. tan ⁻¹ x B. Cosec ⁻¹ x C. Cosec x D. cosec ⁻¹ (1/x) |
| 4 | If one root of the equation x^2 - $3x + a = 0$ is 2 then $a =$ | A. 0 B. 1 C. 2 D. 3 |
| 5 | If θ be angle between u,v and u,v determine the sides of a triangle then the third side opposite to angle θ has length | A. u+v B. u + v C. u-v D. u - v |
| 6 | The vector k = [0,0,1] is called unit vector along: | A. x -axis B. y - axis C. z- axis D. None of these |
| 7 | A circle drawn inside a triangle and touching its sides is called; | A. Circumcirle B. Incircle C. Escribed circle D. unit circle |
| 8 | Question Image | |
| 9 | The number of terms in the expansion of $(a + x)^{12}$ is | A. 13 B. 12 C. 11 D. 10 |
| 10 | Question Image | |
| 11 | Question Image | |
| 12 | The circle $(x-2)^2$ + $(y+3)^2$ = 4 is not concentric with the circle | A. (x - 2) ² + (y + 3) ² = 9 B. (x + 2) ² + (y - 3) ² = 4 C. (x + 2) ² + (y - 3) ² = 8 D. (x - 2) ² + (y + 3) ² = 5 |
| 13 | If n is any positive integer then n ² > n + 3 for | |
| 14 | The liner equation ax + by = c is called of the inequality ax +by > c. | A. Associated equation B. Non-associated equation C. disjoint equation D. Feasible equation |
| 15 | The equation of a line parallel to the tangent to the circle x^2 + y^2 = 16 at the point (2, 3) and passing thro' the origin is | A. $2x + 3y = 0$ B. $2x - 3y = 0$ C. $3x + 2y = 0$ D. $3x - 2y = 0$ |
| 16 | 4 ^{1+x} + 4 ^{1-x} = 10 is called | A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these |
| 17 | How many term are there in the A.P, in which $a_1 = 11$, $a_n = 68$, $d=3$ | A. 30 B. 27 |

| | | C. 20 D. 21 |
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| 18 | The number of non zero rows in echelon form of a matrix is called | A. Order of matrix B. Rank of matrix C. Row operation D. None of these |
| 19 | Question Image | |
| 20 | A joint equation of the lines through the origin and perpendicular to the lines ax2 +2hxy +by2 =0 is indentical is ax2 +2hxy +by2 =0 if | A. $h2 = ab$ B. $a + b = 0$ C. $a = b$ D. $a \ne b$ E. $a = b = 0$ |