Mathematics Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	The roots of the equation:	A. complex B. irrational C. rational D. none of these
2	If α, ß are the roots of $x^2 + kx + 12=0$ such that α-ß = 1 then K = :	A. 0 B. ±5 C. ±7 D. ±15
3	If α, ß are complex cube roots of unity, then $1 + \alpha^n + ß^n$ = ... where n is a positive integer divisible by 3:	A. 1 B. 3 C. 2 D. 4
4	$3^{2x} - 3^x - 6 = 0$ is:	A. reciprocal equation B. exponentialequation C. radicalequation D. none of these
5	Question Image	A. quadratic equation B. reciprocal equation C. exponential equation D. none of these
6	One of the roots of the equation 3x2 + 2x + k = 0 is the reciprocal of the other, then k = ...:	A. 3 B. 2 C. 1 D. 4
7	If P(x) is a polynomial of degree m and Q(x) is a polynomial of degree n, the quotient P(x) + Q(x) will produce a polynomial of degree:	A. m . n, plus a quotient B. m - n, plus a remainder C. m ÷ n, plus a factor D. m + n, plus a remainder
8	If P(x) is a polynomial of degree m and Q(x) is a polynomial of degree n, the product P(x) . Q(x) will be a polynomial of degree:	A. m . n B. m - n C. m + n D. m × n
9	If $4^x = 2$, then x equals:	A. 2 B. 1
10	Which one is exponential equation:	A. ax² + bx + c = 0 B. ax + b = 0 D. 2^x = 16
11	Which one is radical equation:	A. ax² + bx + c B. ax + b = 0 D. 2^x = 16
12	Question Image	A. c = 0 B. b = 0, c = 0
13	Solution set of the equation $x^2 - 3x + 2 = 0$ is	A. {-1, 2} B. {1, -2} C. {-1, -2} D. {1, 2}
14	The other name of quadratic equation is:	A. linear equation B. 1st degree equation C. 2nd degree equation D. none
15	No. of ways of solving a quadratic equation:	A. 1 B. 3 C. 2 D. 4
16	The trivial solution of the homogeneous linear equations is:	A. (1, 0, 0) B. (0, 1, 0) C. (0, 0, 1) D. (0, 0, 0)

17	If a matrix A is symmetric as well as skew symmetric, then:	A. A is null matrix B. A is unit matrix C. A is triangular matrix D. A is diagonal matrix
18	Question Image	A. scalar matrix B. diagonalmatrix C. triangularmatrix D. none of these
19	Question Image	A. scalarmatrix B. diagonalmatrix C. lower triangularmatrix D. uppertriangularmatrix
20	Question Image	A. scalar matrix B. diagonalmatrix C. lower triangularmatrix D. upper triangularmatrix