11th Class ICS Mathematics Test Online

Sr	Questions	Answers Choice
1	Sum of roots of $ax^2 + bx + c = 0$ is equal to product of roots only if:	A. a+c=0 B. b+c=0 C. a+b=0 D. a+b+c=0
2	Four fourth roots of 625 are:	A. ±5,±5i B. ±5,±25i C. ±25,±25i D. none of these
3	Question Image	D. none of these
4	Question Image	A. 4 B. 16 C. 8 D. 64
5	Question Image	A. 1 B. 0 C. 2 D. 3
6	Question Image	D. i
7	If one root of $2x^2 + ax + 6 = 0$ is 2 then the value of a is:	A. 7 B. -7
8	Question Image	A. 25 B. 20 C. 40 D. 2a + 2b + 2c
9	If A is a square matrix order 3 × 3 the |kA| equals:	A. k |A| B. k²|A| C. k³ |A| D. k⁴ |A|
10	If each element of a 3 × 3 matrix A is multiplied by 3, then the determinant of the resulting matrix is:	A. |A|³ B. 27|A| C. 3|A| D. 9|A|
11	For a square matrix A, |A| equals:	A. A^t B. |A^t| C. -|A^t| D. -A^t
12	If $A = [a_{ij}]$, $B = [b_{ij}]$ and AB = 0 then:	A. A = 0 B. B = 0 C. either A = 0 or B = 0 D. A & B not necessarily zero
13	If A = [aij] and B = [bij] are two matrices of same order r × s, then order of A - B is:	A. r - s B. r × s C. r + s D. none of these
14	S = {1, -1, 2, -2} is a group under:	A. multiplication B. subtraction C. addition D. none of these
15	Question Image	A. equal sets B. null sets C. overlapping sets D. subsets
16	Question Image	A. A B. B
17	If sets A and B are equal then:	
18	If W = {0, 1, 2, 3, 4, ...}, N = {1, 2, 3, 4 .....} then N - W = ?	A. W B. {0} D. none of these

		D. none of these
19	Question Image	
20	Question Image	A. {1, 2, 3} B. {5, 6, 7} C. {4}