

11th Class ICS Mathematics Test Online

Sr	Questions	Answers Choice
1	$\cos (\alpha-\beta) =$	A. $\cos \alpha \cos \beta + \sin \alpha \sin \beta$ B. $\cos \alpha \cos \beta - \sin \alpha \sin \beta$ C. $\cos \alpha \cos \beta + \sin \alpha \cos \beta$ D. $\sin \alpha \cos \beta - \sin \alpha \sin \beta$
2	Question Image	A. quadratic equation B. reciprocal equation C. exponential equation D. none of these
3	Question Image	A. $\sin x$ B. $\operatorname{cosec} x$
4	No. of triangles can be formed by joining the vertices of the polygon having 5 sides ?	A. 10 B. 15 C. 20 D. none of these
5	No. of arrangements of the letters of the word plane taking all letters at a time:	A. 5 B. 1 D. none
6	How many complex cube roots of unity are there:	A. 2 B. 0 C. 1 D. 3
7	If S is a sample space and event E is S then $P(E)$ is:	A. 0 B. 1 C. >1 D. none
8	$S = \{1, -1, 2, -2\}$ is a group under:	A. multiplication B. subtraction C. addition D. none of these
9	If $a_{n-1} = 2n - 3$ then $a_{n+1} =$	A. $2n - 1$ B. $2n + 1$ C. $2n + 3$ D. none
10	$x^2 - 5x + 6 = 0$ is:	
11	If any two rows of a square matrix are interchanged, the determinant of the resulting matrix:	A. is zero B. is multiplicative inverse of the determinant of the original matrix C. is additive inverse of the determinant the original matrix D. none of these
12	The series $2 + 2 + 2 \dots$ is:	A. divergent B. convergent C. oscillatory D. none of these
13	Question Image	A. irrational fraction B. polynomial C. rational fraction D. none of these
14	If $A = \{1, 2, 7, 9\}$, $B = \{1, 4, 7, 11\}$:	A. disjoint sets B. equal sets C. overlapping sets D. complementary sets
15	A reference angle Θ is always:	
16	$r_3 =$	
17	If the Discriminant of a quadratic equation is a perfect square, then roots are:	A. real and equal B. complex C. rational D. irrational

18	Question Image
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19	The roots of the equation:
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- A. complex
- B. irrational
- C. rational
- D. none of these

20	Product of a complex number and its conjugate is:
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- A. a real number
- B. irrationalnumber
- C. a complexnumber
- D. either real number or complexnumber