

11th Class ICS Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	Factors of $x^2 + y^2$ are:	A. $(x + iy)(x - iy)$ B. $(x + y)(x - y)$ C. $(x + y)(x + y)$ D. none
2	Conjugate of complex number $(-a, -b)$ is:	A. $(-a, b)$ B. $(-a, -b)$ C. $(a, -b)$ D. none of these
3	Question Image	A. $a + c = b + d$ B. $a + b = c + d$ C. $a - b = c - d$ D. None of these
4	The real part of the complex number $a + bi$ is:	A. b B. -b C. a D. -a
5	Question Image	A. i B. 0
6	The additive inverse of a real number is a:	A. 0 B. -a C. a
7	Question Image	A. real numbers B. complex numbers C. prime numbers D. odd numbers
8	Question Image	A. rational number B. irrational number C. natural number D. whole number
9	Question Image	A. $x = 0$ B. $y = 0$ C. $x = 0$ and $y = 0$ D. $x = 0$ or $y = 0$
10	The multiplicative identity of real numbers is:	A. 0 B. 1 C. 2 D. -1
11	Every real number is also a/an:	A. integer B. rational number C. irrational number D. complex number
12	If $z = x + iy = r(\cos \Theta + i \sin \Theta)$, then $\arg z$ is:	A. $\tan \Theta$ B. $\cos^{-1} \frac{x}{r} + \sin^{-1} \frac{y}{r}$ C. r D. Θ
13	Conjugate of $a + ib$ is:	A. $-a + ib$ B. $a + ib$ C. $-a - ib$ D. $a - ib$
14	The imaginary part of the complex number $a + bi$ is:	A. a B. b C. bi D. none of these
15	Irrational numbers are:	A. terminating decimals B. non-terminating decimals C. non-terminating, repeating decimals D. non-terminating, non repeating

16	The identity element with respect to addition is:	A. 0 B. 1 C. -1 D. 0 and 1
17	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Trichotomy property
18	Zero is:	A. a natural number B. a whole number C. a positive integer D. a negative integer
19	Division of a natural number by another natural number gives:	A. always a natural number B. always an integer C. always a rational number D. always an irrational number
20	Conjugate of $a - ib$ is:	A. $b + ia$ B. $-a + ib$ C. $-a - ib$ D. $a + ib$
21	Question Image	A. Additive property B. Multiplicative property C. Reflexive property D. Transitive property
22	Question Image	
23	$i^2 + 1 =$	A. -1 B. 0 C. i D. 1
24	The set of all rational numbers between 2, 3 is:	A. an empty set B. an infinite set C. a finite set D. a power set
25	Question Image	A. cancellation property w.r.t multiplication B. cancellation property w.r.t addition C. multiplicative property D. additive property
26	Multiplicative inverse of $-i$ is:	A. i B. -i C. 1 D. -1
27	Question Image	B. $x = 0, y = 0$
28	Product of a complex number and its conjugate is:	A. a real number B. irrational number C. a complex number D. either real number or complex number
29	Question Image	B. archimedean property C. transitive property D. multiplicative property
30	π is defined as:	A. ration of diameter of a circle to its circumference B. ration of the circumference of a circle to its diameter C. ration of area of a circle to its circumference D. ration of the circumference of a circle to its area
31	π, e are:	A. integers B. natural numbers C. rational numbers D. irrational numbers
32	Question Image	A. rational number B. irrational number C. natural number D. whole number
33	Question Image	A. closure property B. associative property C. commutative property D. trichotomy property

34	The ordered pairs (2, 5) and (5, 2) are:	A. not equal B. equal C. disjoint D. empty
35	Question Image	A. closure property w.r.t multiplication B. commutative property w.r.t multiplication C. associative property w.r.t multiplication D. trichotomy property
36	Modulus of $15i + 20$ is:	A. 20 B. 15 C. 25 D. none of the above
37	Question Image	A. z is purely real B. z is any complex number C. z is purely imaginary D. real part of z = imaginary part of z
38	Conjugate of $-3 - 2i$ is:	A. $3 + 2i$ B. $-3 + 2i$ C. $2 + 3i$ D. $-2 + 3i$
39	Question Image	A. integer B. rational number C. irrational number D. natural number
40	The multiplicative inverses of a non-zero real number a is:	A. 0 B. -a C. a
41	Question Image	A. 0 B. i C. -i D. 1
42	The set of negative integers is closed with respect to:	A. addition B. multiplication C. both (a) and (b) D. subtraction
43	Question Image	A. additive property B. multiplicative inverse property C. transitive property D. negative property
44	Rational numbers are:	A. repeating decimals B. terminating decimals C. periodic decimals D. all of these
45	Question Image	
46	Question Image	
47	Which of the following is correct:	A. $2 + 7i \geq 10 + i$ B. $1 + i \geq 1 - i$ C. $4 + 3i \geq 1 + 3i$ D. none of these
48	If $z_1 = 4i$ and $z_2 = 3 - 9i$, then $z_1 + z_2 =$	A. $3 - 5i$ B. $3i - 5$ C. $7 - 9i$ D. $3 + 5i$
49	Question Image	A. integer B. rational number C. irrational number D. natural number