

ECAT Computer Science Entry Test

Sr	Questions	Answers Choice
1	If A is a set then any subset R of $A \times A$ is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
2	If A and B are two sets then any subset R of $B \times A$ is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
3	If A and B are two sets then any subset R of $A \times B$ is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
4	The number of subsets of a set having three elements is	A. 4 B. 6 C. 8 D. none of these
5	Question Image	
6	Question Image	
7	Question Image	
8	Question Image	
9	The multiplicative inverse of (a,b) is	
10	Question Image	A. (x, y) B. (kx, y) C. (x, ky) D. (kx, ky)
11	Question Image	
12	Question Image	A. x C. y
13	Every real number is	A. a positive integer B. a rational number C. a negative integer D. a complex number
14	Question Image	
15	The product of complex numbers (a,b) and (c,d) is	A. (ac, bd) B. (ac-bd, ad+bc) C. (ab,cd) D. (ac+bd,ad-bc)
16	The sum of complex number (a,b) and (c,d) is	
17	Question Image	A. 1 B. -1
18	Question Image	B. 1 C. -1
19	Question Image	A. real part of z B. imaginary part of z C. conjugate of z D. modulus of z
20	Question Image	
21	Question Image	A. 0 B. 1 C. -1 D. 2

A. real number

22	Question Image	B. complex number C. rational number D. irrational number
23	Question Image	A. additive property B. multiplicative property C. additive inverse D. additive identity
24	Question Image	A. additive property B. multiplicative property C. additive identity D. multiplicative identity
25	Name the property used in $a(b-c) = ab - ac$	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
26	Name the property used in $1000 \times 1 = 1000$	A. additive inverse B. multiplicative inverse C. additive identity D. multiplicative identity
27	By expressing $\cos 113^\circ$ in terms of trigonometrical ratios, answer will be	A. $\cos 76^\circ = -0.7093$ B. $\cos 65^\circ = -0.4258$ C. $\cos 67^\circ = -0.3907$ D. $\cos 62^\circ = -0.8520$
28	By expressing $\sin 125^\circ$ in terms of trigonometrical ratios, answer will be	A. $\sin 65^\circ = 0.9128$ B. $\sin 55^\circ = 0.8192$ C. $\sin 70^\circ = 0.5384$ D. $\sin 72^\circ = 0.1982$
29	Sine rule for a triangle states that	A. $a/\sin A = b/\sin B = c/\sin C$ B. $\sin A/a = \sin B/b = \sin C/c$ C. $a/\sin A + b/\sin B + c/\sin C$ D. $2a/\sin A = 2b/\sin B = 2c/\sin C$
30	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. Angle A is obtuse B. Angle A is acute C. Angle A is right-angle D. All of above