

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