

Mathematics ECAT Pre Engineering Online Test

0		A
Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	Question Image	
4	Question Image	D. all are correct
5	Question Image	
6	Rank of matrix [1 3 5 0] is	A. 1 B. 3 C. 2 D. 4
7	Question Image	A. 5 C5 D. none
8	Question Image	A. k3 B. 0 C. 3k D. k6
9	Which of the following is skew symmetric matrix	
10	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A2 B. A5 C. A3 D. A7
11	Question Image	
12	Question Image	D. all
13	Question Image	A. (2x+a+b+c) B. (a+b+c) C. (a+b+c+x) D. 0
14	Question Image	A. 16 B. 256 C. 64 D. 1024
15	Question Image	A. I3 B. rI3 C. r D. none
16	Question Image	A. 5 B. 15 C. 10 D. 20
17	Question Image	A. (2x4) B. (2x7) C. (2x3) D. (7x2)
18	Question Image	
19	Question Image	A. 3K B. K2 C. K3 D. K
20	Question Image	
21	Under multiplication, solution set of is	A. Groupoid B. Abelian group C. Semi group D. All of these

22	Identity w.r.t intersection in a power set of any set is	A. ∅ B. Set itself C. Singleton set D. {0}
23	Which symbolic notation represent unary operation?	A B. V C. ∧ D. ⇔
24	Which conjunction is not true ?	
25	Power set of difference set N-W is	A. Empty set B. Infinite set C. Singleton set D. $\{0,\emptyset\}$
26	Question Image	A. A onto B B. both a & D. none of these
27	Question Image	A. a-b=ab B. ab=a C. a+b=ab
28	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these
29	Z is a group under	A. Subtraction B. Multiplication C. Addition D. None of these
30	The identity element of a set X with respect to intersection in P(x) is	A. X B. Does not exist C. ∅ D. None of these