ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 7 C. 4 D. None of these
2	If 4 - x >5, then	A. x > 1 B. x > -1 C. x < 1 D. x < -1
3	Question Image	A. 9/4 B. 4/9 C. 1 D. None of these
4	Question Image	B. $\ln(x^2 - x + 1)^4 + c$
5	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set X∪Y = 54, then number of elements in set X∩Y =	A. 4 B. 3 C. 2 D. 1
6	Question Image	
7	Question Image	
8	The area under the curve $y = 1/x^2$ between x = 1 and x =4 is:	A. -25 B. 0.75 C. -0.35 D. -10
9	The number of subsets of a set having three elements is	A. 4 B. 6 C. 8 D. none of these
10	A bag contains 3 white, 4 black and 2 red balls. If 2 balls are drawn at random, then the probability that both the ball are white is	A. 1/18 B. 1/12 C. 1/36 D. None of these
11	A set having only one element is called	A. An empty set B. Universal set C. A singleton set D. A power set
12	Such a function which is (1 -1) is called	A. surjective B. injuctive C. bijective D. into
13	Question Image	
14	Which of the following is skew symmetric matrix	
15	arb mean	A. a is related to b B. b is related to a C. a is reciprocal of b D. a is not related to b
16	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function
17	x = 1 is in the solution of the inequality	A. x + 1 > 0 B. x - 2 > 0 C. 3x - 1 < 0 D. x + 2 < 0
18	Domain of cosec x is _____	A. A = B

| 19 | Let A,B and C be any sets such that A∪B = A∪C and A∩ B = A∩ C then | B. B = C
C. A≠ C
D. A ≠ B |
| 20 | The period of the trigonometric function y = sin x cos x is | A. 2π
B. π
C. 4π
D. π / 2 |