ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which of the following integrals can be evaluated	
2	Find a if 1 is a root of the equation $x^2 + ax + 2 = 0$	A. 3 B. -3 C. 2 D. 0
3	The set { {a,b} } is	A. Infinite set B. Singleton set C. Two points set D. Empty set
4	Question Image	
5	If the roots of ax2 + b =0 are real and distinct then	A. ab > 0 B. a = 0 C. ab < 0 D. a > 0,b > 0
6	Question Image	
7	An even function is symmetric about the line	A. y = x B. x = 0 C. y = -x D. y = 0
8	A cone is generated by all lines through a fixed point and the circumference of	A. a circle B. an ellipse C. a hyperbola D. none of these
9	How many arrangements of the letters of the word MATHEMATICS can be made	
10	Only one of the root of ax2 + bx + c =0, a≠ 0 is zero if	A. c = 0 B. c = 0,b≠ 0 C. b = 0,c = 0 D. b = 0,c≠ 0
11	Question Image	
12	Eight chairs are numbered 1 to 8. Two women and three men wish to occupy one chair each. First, the women choose the chairs from amongst the chairs marked 1 to 4 and then the men select the chairs from amongst the remaining. The number of possible arrangement is	A. ⁶C₃x ⁴C₂ B. ⁴C₂x ⁴P₃ C. ⁴P₂x ⁶P₃ D. None of these
13	If the roots of $ax^2 + bx + c = 0$ (a > 0) be greater than unity, then	A. a + b + c = 0 B. a + b + c > 0 C. a + b + c < 0 D. None of these
14	The number of ways of arranging the letter AAAAA BBB CCC D EE F in a row when no two C's are together is	
15	There is no integer n for which 3n is	A. Even B. Prime C. Odd D. Real
16	Question Image	B. A C. A' D. U
17	The condition for polynomial equation ax2 + bx + c = 0 to be quadratic is	A. a > 0 B. a < 0 C. a≠ 0 D. a≠ 0,b ≠ 0
18	Question Image	A. π B. π / 2 C. π /

		3 D. π / 4
19	Question Image	
20	Question Image	