ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	For graphing a linear inequality, solid line is drawn if the inequality involves the symbols:	A. > or < B. <u>></u> or <u><</u> C. = or≠ D. = or >
2	If|a| =|b| = |a+b|=1, then|a-b| is equal to:	A. 1 B. √3 C. √2 D. 7
3	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
4	-2, 1, 4, 7,.... is _____	A. Harmonic sequence B. Arithmetic sequence C. Geometric sequence D. Arithmetic series
5	If a_1, r are first term and the common ratio respectively then the sum of an infinite geometric series is	
6	A function in which the second elements of the order pairs are distinct is called	A. Onto function B. One-one function C. Identity function D. Inverse function
7	Question Image	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
8	The multiplicative inverse of 4 is	A. -4 B. -1/4 C. 1/4 D. 1
9	If T = {2,4,6,8,10,12}, then	A. T = (First six natural numbers) B. T = (First six odd numbers) C. T = (First six real numbers) D. T = (First six even numbers)
10	Question Image	
11	Domain of tangent function is	
12	If f(α) = b2 and g (c) =d where c=b2 then (gof)(a) is	A. α B. c C. b D. d
13	In R the number of identity element w.r.t '+' is	A. One B. Two C. Three D. Four
14	(a +b*i*) -c (c +d*i*) =	A. (a +b) = (c +d) B. (a +c) + i(b +d) C. (a -c) + (c -d)i D. (a -c) +(b -d) i
15	w^{15}= _____	A. 0 B. 1 C. w D. w²
16	The set {1, -1, i, -i}	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication
		A. 2 B. 4

17	Question Image	B. 4 C. 8 D. 12
18	Period of cot x is _____	
19	¡^{101}=	A. i B. i² C. -i D. -1
20	The term independent of x is the expansion $(x^3+1/x)^{12}$	A. 295 B. 495 C. 395 D. 722