ECAT Mathematics Chapter 23

Sr	Questions	Answers Choice
1	To each element of a group there corresponds _____ inverse element	A. Two B. One C. No D. Three
2	The function $f\{(x, y) \mid y = ax^2 + bx + c\}$ is	A. One-one function B. Constant function C. Onto function D. Quadratic function
3	The graph of a quadratic function is	A. Circle B. Straight line C. Parabola D. Triangle
4	A function whose range is just one elements is called	A. One-one function B. Constant function C. Onto function D. Identity function
5	The set of the first elements of the orders pairs forming a relations is called its	A. Relation in B B. Range C. Domain D. Relation in A
6	If $\#n = (n-5)^2 + 5$, then find $\#3 \times \#4$.	A. 54 B. 12 C. 4 D. 9
7	Question Image	
8	The set $\{ \{a, b\} \}$ is	A. Infinite set B. Singleton set C. Two points set D. Empty set
9	Question Image	A. Singleton set B. A set with two points C. Empty set D. None of these
10	Φ set is the _____ of all sets?	A. Subset B. Union C. Universal D. Intersection
11	In a country, 55% of the male population has houses in cities while 30% have houses both in cities and in village. Find the percentage of the population that has house only in villages.	A. 45 B. 30 C. 25 D. 50
12	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating
13	Multiplicative inverse of 0 is	A. 0 B. 1 C. +-1 D. Does not exist
14	The identity elements with respect to subtraction is	A. 0 B. 1 C. -1 D. Does not exist
15	Question Image	A. -x B. Infinite set C. $\{-4, 4\}$ D. None of these
16	Question Image	A. $1/x$ B. -x C. 2x

D. 0.5 x

17	Additive inverse of -a -b is	A. a B. -a + b C. a - b D. a + b
18	If a set S contains "n" elements then P (S) has ...... number of elements	A. 2^n B. 2^{2n} C. 2 . n D. n^2
19	Multiplicative inverse of "1" is	A. +- 1 B. 0 C. 1 D. None of these
20	The set {-1, 1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division