ECAT Mathematics MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	If $f(x) = x + 1$ then $f(z^2-1)$ is	A. z^2 B. $z^2 + 2$ C. $z^2 - 2$ D. none of these
2	If $a_1 = 3$, $r = 2$, then the nth term of the G.P. is	A. 2.3^{n-1} B. 3.2^n C. 3.2^{n+1} D. 3.2^{n-1}
3	Question Image	
4	If a is any real number and a = a is called	A. symmetric property B. Trichotomy Properties C. Transitive Property D. Reflexive Properties
5	The projection of $-2i + 3j + 7k$ on $2j + k$ is	A. 13/5 B. 13/4 C. 13/ square 5 D. 13
6	If $x^2 - 7x + a$ has remainder 1 when divided by $x + 1$, then a = _____	A. -7 B. 7 C. 0 D. None of these
7	Question Image	
8	$2x + 3 < 0$ is.	A. Inequality B. Equality C. Identity D. None
9	Question Image	
10	In a triangle ABC, if angle A = 72° , angle B = 48° and c = 9 cm then Ĉ is	A. 69° B. 66° C. 60° D. 63°
11	Question Image	
12	While writing his books on geometry, Euclid used	A. Inductive method B. Deductive method C. Implication D. proposition
13	The sum if 1,3,5,7,9........ up to 20 terms is	A. 400 B. 472 C. 563 D. 264
14	The sum of complex number (a,b) and (c,d) is	
15	$f(x) = C$ is	A. identity function B. constant function C. linear function D. quadratic function
16	Question Image	A. 0 B. 1 C. 2 D. 3
17	Question Image	B. $6x + 2 + c$ C. $6x + x^2 + c$ D. $6x^3 + x^2 + x$

18	Question Image	A. A variable B. A constant C. 0 D. None of these
19	$\forall x, y \in R$ and $x > 0$, $y > 0$, if $x > y$	D. None of these
20	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. 1 / 500 B. 1 / 504 C. 1 / 252 D. 1 / 250