

## ECAT (Pre-Eng) Mathematics Chapter 3 Logic

Sr	Questions	Answers Choice
1	10 is a even number or 0 is a natural number, then truth value of this disjunction is	A. False B. True C. Not discussed D. negation of first
2	According to Aristotle, in preposition there could be	A. One possibility B. Two possibility C. three possibility D. Seven possibilites
3	Deduction is mostly used in	A. elementary mathematics B. natural science C. higher mathematics D. medicine
4	If p is false, $\sim p$ is	A. true B. not true C. equal to p D. conjunction
5	Conjunction of two statements p and q is denoted symbolically as	
6	Question Image	A. conclusion B. consequent C. hypothesis D. conditional
7	Which of the following statement, is true	A. Lahore is in Punjab and $5 > 7$ B. Lahore is the capital of Pakistan and $3 < 23$ C. Lahore is capital of Sindh and $2 + 2 = 7$ D. Lahore is the capital of Sindh or $2 + 2 = 4$
8	An implication of p and q is denoted by	
9	While writing his books on geometry, Euclid used	A. inductive method B. deductive method C. implication D. proposition
10	Deductive logic in which every statement is regarded as true or false and there is no other possibility is called	A. deductive logic B. inductive logic C. Aristolian logic D. non-Aristolian logic
11	We often consult doctors or lawyers on the basis of their good	A. personality B. behaviour C. reputation D. good dealing
12	If p is false, $\neg p$ is	A. True B. Not true C. Equal to p D. Conjunction
13	Basic principles of deductive logic were laid down by	A. Euclid B. Leibniz C. Newton D. Aristotle
14	10 is a even number or 0 is a natural number, then truth value of this disjunction is	A. false B. true C. not discussed D. negation of first
15	The conditional statement "If p then q" is logically equivalent to the statement.	A. Not p or Not q B. Not p and Not q C. Not p or q D. p or q
16	The conjunction of $3 > 5$ , and $5 > 9$ , is	A. False B. True C. Disjunction

D. Unknown

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17 To draw conclusions from premises believed to be true, this way of reasoning is called

A. deduction  
B. induction  
C. implication  
D. disjunction

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18 A declarative statement which may be true or false but not both is called a

A. Hypothesis  
B. Proposition  
C. implication  
D. conjunction

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19 The conjunction of  $3 > 5$ , and  $5 < 9$ , is

A. false  
B. true  
C. unknown  
D. disjunction

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20 The greater part of our knowledge, is based on

A. deduction  
B. induction  
C. conjunction  
D. disjunction

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