



Q.No.1. Give short answers of the following: (10x3=30)

1. What is atomic statement?
2. Define Existential import.
3. Draw the first and fourth figure of syllogism.
4. Define tautology.
5. Draw the truth table for negation.
6. Discuss the fallacy of composition.
7. Draw Modern Square of opposition.
8. Write two rules of conversion.
9. Define the fallacy of exclusive premises.
10. Who was a Aristotle?

Give brief answers of the followings.

Q No.2: Construct Venn diagram to determine the validity of following syllogism.

Name the Fallacy, if committed. (10 Marks)

- (A) AAI-1
- (B) AEE-2
- (C) EAA-1
- (D) EAO-4
- (E) AEE-3

Q No.3: Define Inductive argument. Discuss the kinds of inductive argument with examples. (10 Marks)

Q No. 4:

(A) Create Truth tables to determine each of the following statements is contingent, tautology or a self-contradiction.

- (i) $(P \vee \sim P) \vee Q$
- (ii) $P \vee (Q \cdot \sim Q)$ (5 Marks)

(B) Determine whether the following symbolized argument is valid or invalid by constructing a truth table.

$$\begin{array}{l}
 P \supset (\sim P \vee \sim S) \\
 \sim P \\
 \hline
 \sim S
 \end{array}$$

(5 Marks)