**Propositional Logic**

**Tutorial-1**

**Question 1**

1. Construct the truth table of
2. Construct the truth table of
3. Construct the truth tables of

**Question 2**

Show that is a tautology.

**Question 3**

What can you say about the following compound propositions?

1. (

**Question 4**

State whether the following compound propositions are tautologies, contradictions or contingent propositions:

1. q p
2. (p q) (p q)
3. (p r) ⇔ (r p)
4. p q
5. p ⇔ ( p q)
6. q r r