## Assignment 0

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2018-08-07, 23:59 IST.

1) *If Sweden plays, then Germany will be out*- This sentence will be false if Sweden plays and Germany is not out.

- a) True
- b) False

No, the answer is incorrect. Score: 0

Accepted Answers:
- a) True

2) *Exclusive or* will be true if and only if both the disjuncts are false.

- a) True
- b) False

No, the answer is incorrect. Score: 0

Accepted Answers:
- b) False

3) Two propositions are logically equivalent if there is at least one case where their truth-values match.

- a) True
- b) False

No, the answer is incorrect. Score: 0

Accepted Answers:
- b) False

4) The sentence *'All cakes are good, except the stale'* logically implies *'No stale cakes aregood'*.

- a) True
- b) False

No, the answer is incorrect. Score: 0

Accepted Answers:
- b) False
5) If A is true and B is false then ‘A and B’ will be true.  
   a) True  
   b) False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   b) False

6) If ‘Some animals are ferocious’ is true, ‘Some animals are not ferocious’ may also be true.  
   a) True  
   b) False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   a) True

7) Deductive arguments are invalid when the conclusion is true.  
   a) True  
   b) False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   b) False

8) ‘Some smart people are not rich’ contradicts ‘All smart people are rich’.  
   a) True  
   b) False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   a) True

9) ‘Neither me nor Kuhu will go’ logically means ‘Either I will not go or Kuhu will not go’.  
   a) True  
   b) False  
   No, the answer is incorrect.  
   Score: 0  
   Accepted Answers:  
   b) False

10) If A is true and B is false then ‘A or B’ will be true.  
    a) True  
    b) False  
    No, the answer is incorrect.  
    Score: 0  
    Accepted Answers:
a) True

1) The truth tree for the following argument:

\[(V \supset X) \land V \supset \sim X\]

a) Shows that it is a tautology.
b) Shows that it is a contradiction.
c) Shows that it is a contingent.

No, the answer is incorrect.

Score: 0

Accepted Answers:
c) Shows that it is a contingent.