



6. The truth-functional connective for inclusive disjunction is called a
- curl
 - tilde
 - dot
 - wedge
7. If 'p' and 'q' are false, ' $p \equiv q$ ' is
- true
 - false
 - both a) and b)
 - neither a) nor b)
8. _____ has more than one meaning.
- Proposition
 - Negation
 - Implication
 - none of these
9. A statement form that has only false substitution instances is called a
- contingent statement form
 - contradiction
 - tautology
 - none of these
10. ' $p \cdot q, \therefore p$ ' is the symbolic representation of
- Absorption
 - Addition
 - Modus Ponens
 - Simplification
11. _____ is a statement form in which all substitution instances must be true.
- Contradiction
 - Tautology
 - Contingent statement
 - All these
12. From ' $A \supset B$ ', we can conclude _____ by Modus Ponens.
- $\sim B$
 - B
 - $A \cdot B$
 - none of these
13. _____ is a term associated with digital revolution.
- Implication
 - Infotainment
 - Argument
 - None of these
14. Informatics includes the study of communication in _____ as well as devices.
- organisms
 - space
 - information
 - none of these



15. Information is _____ facts.
- observed
 - used
 - conceived
 - organized
16. Informatics has the basic theme of
- digitalization
 - computer network
 - human-computer interaction
 - internet
- (Weightage 4x1= 4)**

PART - B

Answer **any four** questions. **Each** question carries a weightage of **one**. Answer should **not** exceed **20** words.

17. Present the truth table for conjunction.
18. Present the symbolic representation of Modus Tollens.
19. If the component propositions are given true, identify whether the following is true or false $X \supset (Y \supset Z)$.
20. State the meaning and symbolic representation of Double Negation.
21. Write a short note on ARPANET.
22. Define 'Cyberspace'.
- (Weightage 4x1= 4)**

PART - C

Answer **any four** questions. **Each** question carries a weightage of **two**. Answer should **not** exceed **100** words.

23. Define compound statement and exemplify its symbolic form.
24. symbolize the following and find out its truth-value by truth table method according to the truth value given in brackets :
- Price increase is a curse (T) and food shortage is a curse (F).
 - If the weather is pleasant (F) we shall visit Jovan (F).