Course: SEC-B(Mathematical Logic)

Choose the correct alternative:

 $5 \times 2 = 10$

- 6. Simplification of the function f(x, y, z) = x(yz' + yz) is
 - a) *xy*
 - b) x'y'
 - c) x'y
 - d) xy'
- 7. A Boolean function f is defined by f(x,y,z)=xy+yz+zx. The conjuction normal form of f(x,y,z) is
 - a) f(x,y,z) = (x + y + z)(x + y + z')(x + y' + z)(x' + y + z)
 - b) f(x,y,z) = (x' + y' + z')(x + y + z')(x + y' + z)(x' + y + z)
 - c) f(x,y,z) = (x+y+z)(x+y'+z')(x'+y'+z)(x'+y+z')
 - d) f(x,y,z) = (x'+y'+z')(x+y'+z')(x'+y'+z)(x'+y+z')
- 8. $A \lor \sim A$ is
 - a) T
 - b) F
 - c) Neither T nor F
 - d) Both T and F
- 9. A valuation is a mapping from the set of propositional variable to the two element set
 - a) {T,T}
 - b) {T,F}
 - c) {F,F}
 - d) None of these
- 10. The disjunction of p and q is denoted by
 - a) pVq
 - b) p∧q
 - c) $p \rightarrow q$
 - d) None of these