CSE-103

Student ID:1705013 Verifying student ID:1705094

Subject:

Chapter no.:1

Section no.:1

Exercise no.: 33

**p q (p ∨ q) (p⊕q) (p ∨ q) →(p⊕q) (p∧q) (p⊕q)→ (p∧q) (p∨q)⊕ (p∧q)**

T T T F F T T F

T F T T T F F T

F T T T T F F T

F F F F T F T F

For part (d)-----

**p q (p↔q) ¬p (¬p↔q) (p↔q)⊕ (¬p↔q)**

T T T F F T

T F F F T T

F T F T T T

F F T T F T

For part (e)-----

**p q r ¬p ¬r (p↔q) (¬p↔¬r) (p↔q) ⊕ (¬p↔¬r)**

T T T F F T T F

T T F F T T F T

T F T F F F T T

T F F F T F F F

F T T T T T T T

F T F T T F T T

F F T T F T F T

F F F T T T T F

For part (f)-----

**p q ¬q (p⊕q) (p⊕¬q) (p⊕q)→ (p⊕¬q)**

T T F F T T

T F T T F F

F T F T F F

F F T F T T