CSE-103

STUDENT ID :1705116

VARIFYING STUDENT ID :1705043

CHAPTER:1

SECTION:1

EXERCISE NO.36

A)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | Q | R | ( P v Q) | (P V Q) V R |
| T | T | T | T | T |
| T | T | F | T | T |
| T | F | T | T | T |
| T | F | F | T | T |
| F | T | T | T | T |
| F | T | F | T | T |
| F | F | T | F | T |
| F | F | F | F | F |

B)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | Q | R | ( P v Q) | (P V Q)^R |
| T | T | T | T | T |
| T | T | F | T | F |
| T | F | T | T | T |
| T | F | F | T | F |
| F | T | T | T | T |
| F | T | F | T | F |
| F | F | T | F | F |
| F | F | F | F | F |

C)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | Q | R | ( P ^ Q) | (P ^ Q) V R |
| T | T | T | T | T |
| T | T | F | T | T |
| T | F | T | F | T |
| T | F | F | F | F |
| F | T | T | F | T |
| F | T | F | F | F |
| F | F | T | F | T |
| F | F | F | F | F |

D)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | Q | R | ( P ^ Q) | (P ^ Q) ^ R |
| T | T | T | T | T |
| T | T | F | T | F |
| T | F | T | F | F |
| T | F | F | F | F |
| F | T | T | F | F |
| F | T | F | F | F |
| F | F | T | F | F |
| F | F | F | F | F |

E)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | Q | R | ( P v Q) | (P V Q) V ~R |
| T | T | T | T | F |
| T | T | F | T | T |
| T | F | T | T | F |
| T | F | F | T | T |
| F | T | T | T | F |
| F | T | F | T | T |
| F | F | T | F | F |
| F | F | F | F | F |

F)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| P | Q | R | ( P ^ Q) | (P V Q) V~ R |
| T | T | T | T | T |
| T | T | F | T | T |
| T | F | T | F | F |
| T | F | F | F | T |
| F | T | T | F | F |
| F | T | F | F | T |
| F | F | T | F | F |
| F | F | F | F | T |