**PART 1:**

|  |  |  |
| --- | --- | --- |
| A | B | F |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |

F = [ ( A’ B )’ (B’ A)’ ] ‘

ANS : F = A’B + AB’

**PART 2:**

|  |  |  |
| --- | --- | --- |
| A | B | F |
| 0 | 0 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

G = [ ( A(A’+B’) + (B(A’+B’)) ] ‘

G = (A’ + AB ) ( B’ + AB)

ANS : G = A’B’ +AB