CSE 101

Student ID: 1705055 **Verifying Student ID:** 1705085

Subject: Assignment from Book

Chapter No: 1

Section No: 2

Exercise No: 41

Answer:

a) The output of the OR gate is $q \vee r$. Therefore the output of the AND gate is $p \wedge (q \vee r)$. Therefore the output of this circuit is $(P \wedge (q \vee r))$.

b) The output of the top AND gate is $(\bullet p) \land (\bullet q)$. The output of the bottom AND gate is $p \land r$. Therefore the output of this circuit is $((\bullet p) \land (\bullet q)) \lor (p \land r)$.