**CSE230 (Sec-1): Quiz#01**

1. Express the following in terms of propositions and logical connectives (you have to consider implicit assumptions if any): **[05]**

Students enrolled for CSE, CS and EEE program are allowed to take discrete mathematics.

1. Check whether **(*p* → *r*) ˅ (*q* → *r*)** and **(p ˄ q) → r** are logically equivalent or not[**without using truth table**]. Verify your answer using truth table. **[5+5=10]**
2. Determine whether the compound proposition found in **Q.No.1** is a contradiction or a tautology or a contingency. **[05]**