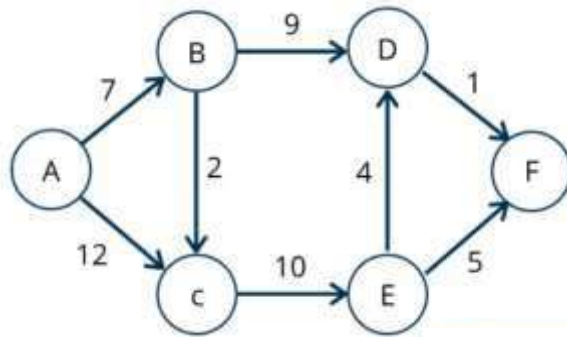1. **Using Transposition Cipher approach, find out the Ciphertext for the following Plaintexts. Assume that the key is FANCY**
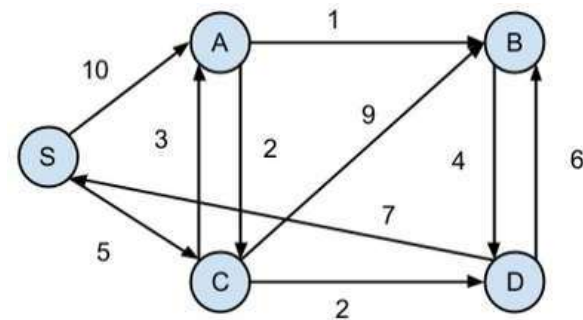   a. **Plaintext**: BELIEVE IN SOMETHING EVEN IF IT MEANS SACRIFICING EVERYTHING
   b. **Plaintext**: history is always written by the winners
   c. **Plaintext**: those unable to catalogue the past are doomed to repeat it
   d. **Plaintext**: one cannot erase the past merely because it does not fit the present
   e. **Plaintext**: history has demonstrated that the most notable winners usually encountered heartbreaking obstacles before they triumphed

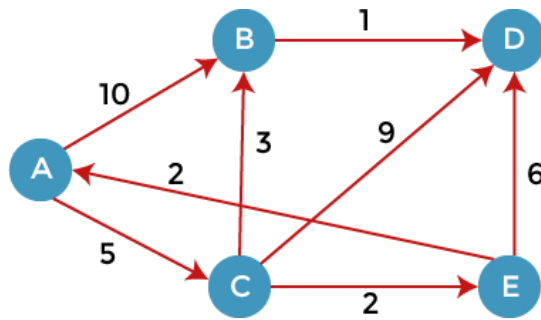2. **Apply Dijkstra Algorithm on the following graphs.**
   a) Assume that vertex A is the starting node

   b) Assume that vertex S is the starting node

   c) Assume that vertex A is the starting node

   d) Assume that vertex S is the starting node