**Total Time: 25 Minutes**                                          **Total Marks: 15**

**Q1.** Draw and describe the Telecommunication Network Hierarchy?          **[5 mark]**

**Q2.** Compare the OSI and TCP/IP model of network layer.                  **[3 marks]**

**Q3.** TCP is reliable and connection oriented but UDP is unreliable and connectionless communication. Why?                                            **[3 marks]**

**Q4.** The following number is a dump of a TCP header in hexadecimal format.   **[4 marks]**

DC13057B 55ABFD6C ADC8654C F02845DA 0012FCD2

(i) What is the source port number?            (iii) What is the length of the header?

(ii) What is the destination port number?      (iv) What is the segment type?