QP Code : 717903

(3 Hours)

[Total Marks : 80

N.B. : (1) Question **No. 1** is **compulsory**.
  (2) Attempt **any three** questions out of remaining.
  (3) Figures to the **right** indicate **full** marks.

1. Solve following :   20
    (a) Explain the techniques to improve QoS in multimedia.
    (b) What is pseudo header? Why it is used in UDP.
    (c) What is Remote Login? Explain working principle of NVT.
    (d) What is socket address? Explain with example.

2. (a) Which protocol is responsible to report error messages? Explain in brief.   10
   (b) What is role of H.323 protocol in VOIP.

3. (a) Explain need of digitizing audio and video in Internet communication.   10
       Explain video compression (MPEG) in detail.
   (b) Explain the resource record format of DNS.   10

4. (a) What is 3 way handshaking? Explain connection establishment using TCP.   10
   (b) How the IP address is allocated dynamically? Explain state transition diagram 10
       of DHCP.

5. (a) Explain the working principle of POP3 and JMAP4 for mail delivery?   10
   (b) What are the different special addresses in classful addressing? Explain in 10
       detail.

6. Write a short note on (any **three**)   20
    (a) TFTP
    (b) UDP multiplexing/ demutiplexing
    (c) RTP
    (d) Address depletion