P3536

[5560]-188

T.E. (Computer Engineering)
COMPUTER NETWORKS
(2012 Course) (Semster - II)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
   1)   *Neat diagrams must be drawn wherever necessary.*
   2)   *Assume suitable data, if necessary.*

Q1) a)   What is requirement of DNS. Explain its working in detail.   **[8]**

   b)   What are different DHCP messages. Explain with examples.   **[6]**

   c)   Draw UDP header structure; explain significance of each field in UDP header.   **[6]**

OR

Q2) a)   Explain in detail RIP protocol.   **[6]**

   b)   Divide the network 220.125.5.192/26 into 4 sub networks. How many hosts can be connected in each network? Show their IP range, network address and broadcast address.   **[8]**

   c)   Compare IPv6 and IPv4. Draw and explain IPv6 header format.   **[6]**

Q3) a)   Explain all versions of 802.11 standard and components.   **[8]**

   b)   Write short note on following (any 2)   **[8]**

      i)   WLAN

      ii)   WAP 2.0

      iii)   SONET

OR

Q4) a)   Explain WAP protocol stack.   **[8]**

   b)   Explain Hidden station and Expose station Problem?   **[8]**

P.T.O.

Q5) a) Explain the Architecture diagram of Delay Tolerant Network? **[8]**

b) What are the components of VANET? What do you mean by dedicated short range communication in VANET? **[8]**

OR

Q6) a) Draw and explain VOIP network architecture. **[8]**

b) Explain an application of VOIP in real environment. **[8]**

Q7) a) What is the role of client layers in optical fiber? **[8]**

b) Write short note on (any 2) **[10]**

    i) Role of Ethernet in Optical Network

    ii) GMPLS

    iii) Virtualization and its types

OR

Q8) a) What is ATM? Explain in detail. Explain the Heterogeneous vehicular Communication protocol Module. **[8]**

b) Explain working of SDN in detail with diagram. **[10]**

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