SEAT No. :

P2465

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T.E. (Computer Engineering)
Computer Networks
(2012 Pattern) (End Semester)

Time : 2½ Hours]   *[Max. Marks : 70*

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

Q1) a) What is the difference between persistent & non persistent HTTP? Also explain HTTP message format. **[6]**

   b) Explain FTP. **[4]**

   c) Explain working of DHCP. **[6]**

   d) What is the silly window syndrome problem? Suggest solution to overcome the problem **[4]**

OR

Q2) a) What is the difference between Integrated services and Differentiated services. Explain Resource Reservation Protocol (RSVP) in detail. **[8]**

   b) Give the significance of following commands with syntax. **[6]**
      i) IP config
      ii) Ping
      iii) Traceroute

   c) What are four general techniques to improve QoS- Quality of Service? Explain any one in detail. **[6]**

Q3) a) Explain Bluetooth frame format in detail. **[5]**

   b) Explain CSMA/CA in detail? **[5]**

   c) How much time in a Bluetooth one-slot frame is used for the hopping mechanism ? What about a three-slot frame and five-slot frame? **[6]**

P.T.O.

Q4) a) Compare and explain 802.11a, 802.11b and 802.11g wireless standards with respect to **[8]**

     i) Frequency

     ii) Signal to Noise ratio

     iii) Bandwidth

     iv) Range

  b) Explain addressing mechanism in 802.11 frame format. **[4]**

  c) Write short note on Network Allocation Vector (NAV)? **[4]**

Q5) a) Write a short note on (Any Two) **[8]**

     i) GMPLS

     ii) Mobile IP

     iii) H.323 used in VoIP

  b) What is DTN ? Explain different layers of DTN. **[8]**

<div align="center">OR</div>

Q6) a) What are the components of VANET? What do you mean by dedicated short range communication in VANET? **[8]**

  b) What is VoIP? Explain SIP (Session Initiation Protocol) in detail. **[8]**

Q7) a) Explain ATM Header? Explain Application Adaptation Layer in detail. **[10]**

  b) Explain SONET Frame format in detail. **[8]**

<div align="center">OR</div>

Q8) a) Explain Client layers of Optical fiber. **[8]**

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

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