

[5253] - 188

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]

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OR

- 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]
- OR
- 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]
- OR
- Q8) a) Explain Client layers of Optical fiber. [8]
- b) Explain working of SDN in detail with diagram. [10]

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