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SEAT No. :
[Total No. of Pages : 2

T.E. (Computer Engineering)
COMPUTER NETWORKS
(2012 Pattern) (Semester - II) (End Sem.) (310251)

Time : 2½ Hours]

Instructions to the candidates:

- 1) Neat Diagrams must be drawn wherever necessary;
- 2) Assume Suitable data, if necessary;
- 3) Draw neat diagrams whenever necessary;

[Max. Marks : 70

Q1) a) Explain DHCP in detail.

[8]

b) What is the difference between persistent and non persistent HTTP? Explain HTTP message format.

[8]

c) Differentiate between TCP and UDP protocol.

[4]

OR

Q2) a) Explain Link State Routing with example.

[8]

b) Why TCP need four different timers? Explain function of each.

[8]

c) Differentiate between IPv4 and IPv6.

[4]

OR

Q8) a) Explain ATM architecture with diagram.

[8]

b) Explain working of SDN in detail with diagram.

[10]

Q3) a) Explain MAC Sublayer: Distributed Coordination Function (DCF) & Point Coordination Function (PCF) of 802.11 standard.

[8]

b) Write short note on following (any 2):

[8]

i) WML Script

ii) WAP 2.0

iii) SONET Frame Format.

OR

Q4) a) Explain WLAN Architecture.

[8]

b) Draw and explain diagram of Frequency Hopping Spread Spectrum (FHSS) and Direct Sequence Spread Spectrum (DSSS).

[8]

Q5) a) Explain DTN architecture in wired 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



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