Total No. of Questions : 10]

SEAT No :

P1763

[Total No. of Pages : 2

[5058]-403

T.E.(Information Technology)

COMPUTER NETWORK TECHNOLOGY

(2012 Pattern) (Semester -I) (314441) (End Semester)

Time : 2.½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***Neat diagrams must be drawn wherever necessary.***
2) ***Figures to the right indicate full marks.***
3) ***Assume suitable data if necessary.***

Q1) a) Explain distance vector routing with count to infinity problem. **[6]**

b) Explain multiplexing technique at transport layer. **[4]**

OR

Q2) a) Why three timers are required in TCP timer management? **[6]**

b) Define subnetting, supernetting and classless addressing. **[4]**

Q3) a) What is domain name system? explain how a resolver looks up a remote name with suitable example. **[6]**

b) What is MIME? Discuss its role in SMTP. **[4]**

OR

Q4) a) State and explain six commands in FTP. **[6]**

b) Explain static and Dynamic Web pages. **[4]**

Q5) a) Compare bluetooth and 802.11. What are the limitations of Bluetooth. **[8]**

b) what are Hidden Station and exposed station problems in WLAN? **[8]**

OR

Q6) a) Explain BSS and ESS in 802.11. **[8]**

b) Describe Bluetooth protocol stack. **[8]**

P.T.O.

Q7) a) What are the operating environmental constrainst in WSN? **[8]**

b) List different routing protocols used by WSN. Explain LEACH protocol. **[8]**

OR

Q8) a) Describe each component in sensor node architecture. **[8]**

b) List any six applications of sensor networks and describe in detail. **[8]**

Q9) Write short note on (Any three) **[18]**

a) SPIN

b) 100G

c) IOT

d) S-MAC

OR

Q10)Write short note on (Any three) **[18]**

a) PEGASIS

b) BYOD

c) SDN

d) AODV

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