Total No. of Questions : 10]

SEAT No. :

P2367

[Total No. of Pages : 2

[5254] - 700
B.E. (Information Technology)
ADVANCED COMPUTER NETWORKS
(2012 Pattern) (Semester - II) (Elective - III)

Time :2½ Hours] *[Max. Marks :70*

Instructions to the candidates:

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

Q1) a) Explain networking principle along with its architecture. **[6]**

b) Compare Internet protocol over ATM. **[4]**

OR

Q2) a) Explain various services provided by ISDN. **[6]**

b) How routing is done when host are mobile? **[4]**

Q3) a) How packets are transmitted in virtual circuit network? **[6]**

b) Draw the architecture of Bluetooth. **[4]**

OR

Q4) a) Explain WDM system for optical networks. **[6]**

b) List various delays in ATM networks. **[4]**

Q5) a) Explain in detail source based congestion avoidance. **[10]**

b) Explain in detail IP switching. **[8]**

OR

Q6) a) What is presentation formatting? Explain External Data Representation (XDR) with suitable example. **[10]**

b) What do you mean by congestion control? What are components of TCP congestion control? **[8]**

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Q7) a) Explain operations of Mobile IP. **[8]**

b) How neighbors are discovered in routing? **[8]**

OR

Q8) a) Explain the operation of MPLS in detail. **[8]**

b) What are the challenges of traffic engineering in IP/MPLS network? **[8]**

Q9) a) Draw and explain basic architectural stack of IEEE 802.16. **[8]**

b) Explain DSDV protocol for Adhoc wireless networks. **[8]**

OR

Q10)a) Explain in detail MAC implementation of IEEE 802.16 **[8]**

b) Describe different issues related to Adhoc wireless networks. **[8]**