

Total No. of Questions : 12]

SEAT No. :

P1444**[4759]-199**

[Total No. of Pages : 2

B.E.(I.T)**ADVANCED COMPUTER NETWORK****(414450) (2008 Course) (Elective-III) (Semester-II)***Time : 3 Hours]**[Max. Marks : 100**Instructions to the candidates:*

- 1) *Answers to the two sections should be written in separate answer books.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of Calculator is allowed.*
- 5) *Assume Suitable data if necessary*

SECTION-I

Q1) a) What are the network elements? Draw neat diagram of network architecture? **[8]**

b) State similarities and differentiate various wireless networks such as Bluetooth, Wi-Fi and Wi-Max. **[10]**

OR

Q2) a) How packets are transported in datagram and virtual circuit network? **[8]**

b) Explain ATM reference model and its protocol stack. **[10]**

Q3) a) Draw a neat diagram of ATM header? **[8]**

b) What is Network Address Translator? Explain in detail with example. **[8]**

OR

Q4) a) Explain mobility management issues in wireless networks. **[8]**

b) Explain addressing schemes in ATM networks? **[8]**

Q5) a) How dynamic routing optimization is carried out with different algorithm? **[8]**

b) Explain how "Availability of network" is calculated using MTBF and MTTR. **[8]**

OR

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- Q6)** a) Explain Markov chain model for circuit-switched network? [8]
 b) What are the parameters specified in quality of service? Explain in details? [8]

SECTION-II

- Q7)** a) Explain 5 different delays encountered by ATM cell with the help of figure. [8]
 b) Explain architecture of wireless network. State its applications. [10]

OR

- Q8)** a) What are VPN's? Explain the significance of Tunneling in VPN'S. [10]
 b) Explain how ATM network can transport IP packets. [8]

- Q9)** a) Explain in brief protocol suite, H.323 for IP telephony. [8]
 b) Explain blocking probability in circuit switch network. [8]

OR

- Q10)** a) Explain various features of IPV6? [8]
 b) Explain DSR protocol for Ad-hoc network. [8]

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- Q11)** a) Explain the features of reactive and proactive routing protocols for MANET's. [8]
 b) Explain how firewall is implemented in the network. [8]

OR

- Q12)** a) Explain cluster based network architecture for ad- hoc networks. [8]
 b) Explain in detail PGP Protocol. [8]

