

Total No. of Questions : 10]

SEAT No. :

P2074

[Total No. of Pages : 2

[5059] - 680

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

- Q1)** a) Describe architecture of WiMAX. [6]
b) What are different network elements? [4]

OR

- Q2)** a) What are ATM traffic descriptor? Explain. [6]
b) What is Network address translation? [4]

- Q3)** a) Draw header structure of ATM cell at U-N interface. [6]
b) What is multiprotocol label switching? [4]

OR

- Q4)** a) Describe in detail VoIP. [6]
b) What is multirate circuit switching? [4]

- Q5)** a) What do you mean by lossless compression? State different lossless compression techniques. Explain any one detail. [10]
b) Describe various components of TCP congestion control? [8]

OR

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Q6) a) What are different strategies to avoid congestion? Explain any one in detail. [10]

b) Define QoS? How RSVP supports to improve the overall QoS of network? [8]

Q7) a) Explain characteristics of Mobile IP. [8]

b) What is MPLS? Explain the operations of MPLS in detail. [8]

OR

Q8) a) What is GMPLS? Where it is used? Justify your answer. [8]

b) Discuss the challenges of traffic engineering in IP/MPLS network. [8]

Q9) a) Explain basic architectural stack of IEEE 802.16. [8]

b) Explain Cluster-Based wireless networks. [8]

OR

Q10) a) Describe high rate and low rate WPAN. [8]

b) Explain in detail MAC implementation of IEEE 802.16. [8]

