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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech(ECE) (2018 Batch) (Sem.-1)
ADVANCED COMMUNICATION NETWORKS

Subject Code : MTEC-101-18

Paper ID : [75172]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

- Q1 a) Name two well known data transport protocols provided by the Internet Transport Layer. Provide a brief description of each service and indicate what type of application might use that service.
- b) Explain fairness issues in TCP in detail.
- Q2 a) Explain the methods of resource reservation in internet. Also, list its benefits.
- b) Explain leaky bucket algorithm in detail.
- Q3 a) How traffic in internet is characterized by linearly bounded arrival process?
- b) Explain integrated service model with the help of an example.
- Q4 a) What are the requirements of packet scheduling algorithms in the networking?
- b) Explain the method of high speed scheduler design.
- Q5 a) Explain latency rate servers in packet switched networks for LBAP traffic.
- b) Explain the methods by which active queue management can be achieved.
- Q6 a) What does IP mean? Also, explain the different challenges in IP address lookup.
- b) Explain controlled prefix expansion algorithm.
- Q7 Write short notes on :
- a) Effective bandwidth
- b) Measurement based admission protocol
- c) Diff-Serv architecture in internet.
- Q8 a) Explain IP tunnelling and IP switching in detail.
- b) What are the different traffic engineering issues occur in MPLS?