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M.Tech(ECE) (2018 Batch) (Sem.-1)**ADVANCED COMMUNICATION NETWORKS****Subject Code : MTEC-101-18****M.Code : 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. Discuss in detail about the concept of internet and its various challenges. 12
- Q2. (a) Explain the MPLS architecture with neat sketch. 6
- (b) Discuss about the TCP/IP in detail. 6
- Q3. (a) Explain in detail about the resource reservation in internet. 6
- (b) Describe the characterization of traffic by linearly bounded arrival processes (LBAP). 6
- Q4. Explain in detail about the real time communications over internet and also explain the adaptive applications. 12
- Q5. (a) Discuss in detail about the IP tunneling and IP switching. 6
- (b) Explain the control theoretic analysis of active queue management. 6
- Q6. List the packet scheduling algorithms. Also explain its requirements and choices in detail. 12
- Q7. (a) Explain in detail about the flow identification-grid of tries. 6
- (b) Discuss in detail about the packet classification algorithms. 6
- Q8. (a) Explain about the differentiated services in internet in detail. 6
- (b) Discuss in detail about the measurement based admission control. 6

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

