

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject code: 2715304

Date: 26-06-2014

Subject Name: Advanced Computer Networks

Time: 02:30 pm - 05:00 pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full mark.**

- Q.1** (a) Compare FIFO, fair queuing, and weighted fair queuing algorithms with suitable example **07**
(b) Explain the operation of multi protocol label switching **07**
- Q.2** (a) Explain the RED algorithm **07**
(b) Explain the various queering disciplines in ISA **07**
- OR**
- (b) Define Differentiated services **07**
- Q.3** (a) Explain the services offered by ISA **07**
(b) Explain the block diagram for Integrated Services Architecture. and give details about Components **07**
- OR**
- Q.3** (a) Explain TCP flow & congestion control **07**
(b) Explain various ATM services **07**
- Q.4** (a) Justify usage of hierarchical labels in Multi Protocol Label Switching (MPLS). **07**
(b) In future, ATM will replace IP in Internet. Comment on this statement **07**
- OR**
- Q.4** (a) Explain advantages and disadvantages of fixed and small sized ATM cell. **07**
(b) What is the difference between resource reservation in connection oriented network and RSVP based connection less network. **07**
- Q.5** (a) Explain TTL processing in MPLS switching. **07**
(b) Integrated service and Differentiated service are principally different in the way they function. How do they differ? **07**
- OR**
- Q.5** (a) Multiprotocol Label Switching as the name suggests justify multiprotocol in the name. **07**
(b) Define cell delay variation and Cell delay variation tolerance. **07**
