

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019****Subject Code:2163205****Date:21/05/2019****Subject Name:Advance N/w Protocols****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

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

- Q.1** (a) Explain basic concepts of ATM Networking. **03**  
(b) Draw a simple network using SONET equipment and explain SONET. devices. **04**  
(c) Explain a structure of Packet switching. **07**
- Q.2** (a) Give the application of Optical Network. **03**  
(b) Explain the architecture of X.25 in details **04**  
(c) Write a short note on SONET layers. **07**
- OR**
- (c) Explain Availability, reliability, and Maintainability of a network. **07**
- Q.3** (a) Give the characteristics of traffic engineering **03**  
(b) Explain Concept of IP over ATM. **04**  
(c) Explain ATM Cell header format. **07**
- OR**
- Q.3** (a) Explain IP Multicasting. **03**  
(b) Discuss FTP in detail. **04**  
(c) Explain Bluetooth frame structure in details. **07**
- Q.4** (a) List Multimedia Services. **03**  
(b) Write a short note on Traffic Sizing. **04**  
(c) Explain Bluetooth Protocol Stack in detail. **07**
- OR**
- Q.4** (a) Compare Intra-domain and inter-domain routings. **03**  
(b) Discuss the real-time problems faced in Multimedia networking. **04**  
(c) Explain Network Layer Protocols. **07**
- Q.5** (a) Explain count-to-infinity problem. **03**  
(b) List out the applications of Bluetooth. **04**  
(c) Explain TCP/IP Protocol suite **07**
- OR**
- Q.5** (a) Define Transmitter, Modulator and Amplifier. **03**  
(b) Write a short note on FTP. **04**  
(c) Explain MPLS Label Header format **07**

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