

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (OLD) EXAMINATION – SUMMER 2020****Subject Code: 180704****Date: 28/10/2020****Subject Name: Advance Computer Networks****Time: 02:30 PM TO 05:00 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) Discuss protocols associated with TCP/IP Suit **07**
(b) Draw and compare IPV4 and IPV6 Protocol headers. **07**
- Q.2** (a) Draw and explain SDH Frame structure **07**
(b) Explain the ATM reference model and explain what are the various services provided by it **07**
- OR**
- (b) Explain B-ISDN Reference model. **07**
- Q.3** (a) Discuss the pros and cons of virtual circuit packet switching **07**
(b) Create LAN (Local Area Network) in which show interconnection of 5 hosts, 2 hubs and one switch. Assign appropriate IP addresses to devices. **07**
- OR**
- Q.3** (a) Differentiate unicast routing protocols and multicast routing protocols. Give examples. **07**
(b) List network layer protocols. Discuss any one with header format. **07**
- Q.4** (a) Discuss Availability, Reliability, and Maintainability in terms of Traffic engineering. **07**
(b) Explain VOIP **07**
- OR**
- Q.4** (a) Show the process of routing in IP. **07**
(b) Describe working of RIP protocol and compare with IGRP **07**
- Q.5** (a) Explain spanning tree protocol. Give its use in routing. **07**
(b) Compare Intra and Inter domain routings **07**
- OR**
- Q.5** (a) Explain standard network management protocol **07**
(b) List commands to configure router and explain any two. **07**
