

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (OLD) EXAMINATION – SUMMER 2021****Subject Code:180704****Date:06/08/2021****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) List the functions of ATM adaption layers with explanation of ALL1 and ALL2 **07**
 (b) What is OSI reference model? Explain Layers of OSI model in details. **07**
- Q.2** (a) Compare IPV4 and IPV6 with their header format. **07**
 (b) List types of packet switching. Explain virtual circuit packet switching. **07**
- OR**
- (b) List various unicasting and multicasting algorithms and differentiate **07**
- Q.3** (a) Explain ATM reference model and list services provided by it. **07**
 (b) Discuss the functions of each SONET layer. What is the relationship between SONET and SDH? **07**
- OR**
- Q.3** (a) What is SNMP? Where it is used? **07**
 (b) How transport layer protocols in TCP/IP protocol suit is different than OSI transport layer? **07**
- Q.4** (a) What is a protocol? Give importance and need of protocols in computer network. **07**
 (b) Explain availability, reliability and maintainability of a network in detail **07**
- OR**
- Q.4** (a) What is VOIP? Explain the usage of VIOP. **07**
 (b) Explain the steps of configuring the router in given network **07**
- Q.5** (a) Explain IP Addressing using Classful and Classless Addresses **07**
 (b) List LAN Switch types and explain layer 2 switching. **07**
- OR**
- Q.5** (a) Differentiate RIP and IGRP **07**
 (b) List types of network and explain importance of Computer network in industry and society. **07**
