

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (OLD) EXAMINATION – SUMMER 2019****Subject Code: 180704****Date: 17/05/2019****Subject Name: Advance Computer Networks****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) Write different equipment used in X.25 and explain architecture of X.25 **07**
(b) Explain Error control in UDP **07**
- Q.2** (a) Write short note on IGRP(Interior Gateway Routing Protocol). **07**
(b) Write a short note on SAN(Storage Area Network). **07**
- OR**
- (b) Describe BGP (Border Gateway protocol) in detail. **07**
- Q.3** (a) Write short note on spanning tree protocol **07**
(b) Write a short note on SNMP(Standard Network Management Protocol). **07**
- OR**
- Q.3** (a) Explain the ATM reference model and explain what are the various services provided by it. **07**
(b) Draw and Explain SDH Frame structure **07**
- Q.4** (a) What is the relationship between SONET and SDH? Describe DWDM in detail. **07**
(b) Create WAN connecting five routers. Assign appropriate IP address to each router. Show router configuration command for setting up OSPF protocol **07**
- OR**
- Q.4** (a) An organization is granted the block 130.56.0.0/16. The administrator wants to create 1024 subnets. **07**
1. Find the subnet mask.
2. Find the number of addresses in each subnet.
3. Find the first and last address in subnet 1024.
(b) Create WAN connecting five routers. Assign appropriate IP address to each router. Show router configuration command for setting up RIP protocol. **07**
- Q.5** (a) Explain availability, reliability and maintainability of a network in detail. **07**
(b) Explain IP Addressing using class full and classless Addresses **07**
- OR**
- Q.5** (a) Discuss various methods used for Packet switching **07**
(b) Explain Types of network with examples **07**
