

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (OLD) - EXAMINATION – SUMMER 2017

Subject Code:180704

Date:06/05/2017

Subject Name: Advance Computer Networks (Department Elective - II)

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) Draw and explain SDH Frame structure. **07**
(b) Explain working of DWDM and network configuration in DWDM. **07**
- Q.2** (a) Explain time division multiplexing in ATM. **07**
(b) What are the needs of packet switching? Explain working of packet switching and also methods for packet switching. **07**
- OR**
- (b) Explain B-ISDN Reference model. **07**
- Q.3** (a) Explain IP Addressing using Classful and Classless Addresses. **07**
(b) Write a short note on SNMP (Standard Network Management Protocol). **07**
- OR**
- Q.3** (a) What is traffic engineering? Give and explain traffic characteristics. **07**
(b) What is Socket? List down the advantage of using socket interface and Explain TCP Socket. **07**
- Q.4** (a) Create WAN connecting five routers. Assign appropriate IP address to each router. Show router configuration command for setting up OSPF protocol. **07**
(b) Explain the architecture of X.25 in detail. **07**
- OR**
- Q.4** (a) Explain link state protocol (OSPF). **07**
(b) Write a Short note on Dynamic Host Configuration protocol. **07**
- Q.5** (a) Describe working of RIP protocol and compare with IGRP. **07**
(b) Write a short note: VOIP. **07**
- OR**
- Q.5** (a) Describe in detail about multi-protocol label switching. **07**
(b) Explain availability, reliability and maintainability of a network in detail. **07**
