

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VIII (OLD) EXAMINATION – WINTER 2020****Subject Code:180704****Date:28/01/2021****Subject Name:Advance Computer Networks****Time:02:00 PM TO 04:00 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Discuss benefits and drawback of optical networking **07**
(b) Explain ATM header cell format **07**
- Q.2** (a) Explain the ATM reference model and explain what are the various services provided by it **07**
(b) Discuss various methods used for Packet switching **07**
- Q.3** (a) Describe BGP (Border Gateway protocol) in detail **07**
(b) Discuss protocols associated with layers of TCP/IP protocol suite. **07**
- Q.4** (a) Explain the functions of ATM adaption layers with ALL1 and ALL2 in details **07**
(b) Compare IPV4 and IPV6 with their header format. **07**
- Q.5** (a) Write short note on Spanning tree protocol (STP). **07**
(b) Compare Intra domain and Inter Domain routings **07**
- Q.6** (a) Explain link state protocol (OSPF) **07**
(b) Write a Short note on Dynamic Host Configuration protocol **07**
- Q.7** (a) Explain business requirement, technical requirement and challenges in traffic engineering **07**
(b) What is multimedia over Internet? Explain VOIP. **07**
- Q.8** (a) Write and explain commands to configure router **07**
(b) Explain Layer 3 switching methods **07**
