Seat No.:

Q.4

(a)

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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII (OLD) EXAMINATION - WINTER 2018 Subject Code: 180704 Date: 29/11/2018 **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. What is OSI reference model? Explain Layers of OSI model in details. **07 Q.1** Explain in detail TCP/IP Protocol suite. **07 Q.2** Discuss the functions of each SONET layer. What is the relationship between **07** SONET and SDH? **(b)** Explain working of DWDM and network configuration in DWDM. 07 (b) Explain the functions of ATM adaption layers with ALL1 and ALL2 in 07 Details. **Q.3** Write a short note on: X.25 **07** (a) Write a short note on: Virtual Circuit Packet Switching. 07 **(b)** 0.3 Discuss the benefits of using ATM technology 07 (a) Explain ATM header cell format. **(b)** 07 List and explain various QoS and Traffic parameters used in ATM networks 07 **Q.4** (a) What is multimedia over Internet? Explain VOIP. **(b)**

07

Write a short note on SNMP (Standard Network Management Protocol). 07

Explain BGP (Border Gateway Protocol) routing protocol. 07 **(b)**

Write a Short note on Dynamic Host Configuration protocol Q.5 (a) **07** 07

(b) Compare and contrast ATM and MPLS networks.

Explain availability, reliability and maintainability of a network in detail. 0.5 (a)

Explain Open Shortest Path First Protocol.

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