

GUJARAT TECHNOLOGICAL UNIVERSITY**ME - SEMESTER– III (NEW) EXAMINATION – SUMMER 2017****Subject Code: 2732302****Date:02/05/2017****Subject Name: Internetworking & Application****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 Answer the following questions. 14
1. What is table driven IP routing?
 2. Write about ATM in brief.
 3. What is a Client server model? Write in brief.
 4. How repeaters are different from signal amplifiers?
 5. How RARP works?
 6. Draw SMDS architecture.
 7. Write in brief: VoIP
- Q.2 (a) List network topologies and explain star and ring topologies with advantages and drawbacks. 07
- (b) How domain names are mapped to addresses? What are inverse mappings in DNS? 07
- OR
- (b) Give features of IPv6. Compare improvement features of IPv6 over IPv4. 07
- Q.3 (a) Give procedures to establish and terminate a TCP connection. 07
- (b) What three basic services are offered by Telnet? How Telnet supports heterogeneity? 07
- OR
- Q.3 (a) What is internet security? How firewall implementation gets implemented? 07
- (b) What are design issues in network layering? 07
- Q.4 (a) What is ARP dynamic binding? Discuss ARP protocol format with its constituents. 07
- (b) What is a socket? How socket is created? How to connect sockets to destination addresses? 07
- OR
- Q.4 (a) What is SNMP? List various possible SNMP operations. How SNMP works? 07
- (b) What is xDSL? Explain working of xDSL technology in detail. 07
- Q.5 (a) What is unreliable delivery? How connectionless delivery system works? 07
- (b) Write short notes on:
1. General layout of data gram format 04
 2. Layer 2 and layer 3 Switches 03
- OR
- Q.5 (a) Explain the working of SMTP. Compare workings of SMTP with POP. 07
- (b) Write short notes on:
3. SONET 04
 4. Video on demand 03
