

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER- V -EXAMINATION – WINTER - 2018

Subject Code: 650010

Date: 28/11/ 2018

Subject Name: Advanced Networking

Time: 10.30 am to 1.00 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)** Answer the following in brief **07**
- 1) What is protocol?
 - 2) What is silly window syndrome?
 - 3) What do you mean by address space?
 - 4) What do you mean by fragmentation and MTU?
 - 5) Define : Default mask
 - 6) What is TTL?
 - 7) Explain supernet?
- (b)** Answer the following in brief **07**
- 1) What is loopback address?
 - 2) What is forwarding?
 - 3) Give use and application of FTP and TFTP?
 - 4) What is MIME? What is its use?
 - 5) How many bits are there in IPv6 address?
 - 6) What is the use of ping command?
 - 7) Define: VPN & NAT
- Q.2 (a)** Write short note on classless addressing? **07**
- (b)** Discuss in brief any three error message of ICMP? **07**
- OR**
- (b)** Discuss in brief ARP packet format? Also discuss in brief about RARP? **07**
- Q.3 (a)** Discuss in brief IP options. **07**
- (b)** Discuss type of broadcasting with example. **07**
- OR**
- Q.3 (a)** Discuss in brief IPsec and SSL? **07**
- (b)** List and explain the characteristics of HTTP. **07**
- Q.4 (a)** Discuss in brief how congestion control takes place at TCP? **07**
- (b)** What are the similarities and differences between TCP and UDP? List uses of UDP. Why pseudo header is used in UDP? **07**
- OR**
- Q.4 (a)** What is TCP? Discuss TCP segment format. **07**
- (b)** Discuss in brief different TCP timers? **07**
- Q.5 (a)** Explain in brief SMTP? Also explain the terms UA, MTA. What is use of POP? **07**
- (b)** Write short note on DNS messages format and DNS resource record? **07**
- OR**
- Q.5 (a)** What is the importance of IGMP? Explain in brief? **07**
- (b)** What is firewall? Explain Packet Filtering firewall in detail. **07**
