

Roll No .

**MCTA-202**

**M.E./M.Tech., II Semester**

Examination, May 2018

**Advance Computer Network**

**Time : Three Hours**

**Maximum Marks : 70**

- Note :** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Describe client server model in detail.  
b) Explain the concept of subnet addressing. Illustrate your answer with the help of an suitable example.
2. a) Discuss the process of HTTP transmission. List various messages associated with it.  
b) What is an ARP query sent within a broadcast frame? Why is an ARP response sent within a frame with a specific destination MAC address?
3. a) What are the different types of OSPF links? What is the basis of classification for the four types of link defined by OSPF?  
b) What is RARP? Write its limitations. What are the Alternative solutions to RARP?
4. a) Explain TCP services in detail.  
b) Explain the DNS in terms of name space, resource record and name server.

5. a) What are the deficiencies associated with IPv4 which unsuitable for the fast growing internet?  
b) Describe internet group management protocol.
6. a) Describe the TCP header format.  
b) What do you mean by MIB in SNMP protocol? Describe SNMP packet format.
7. a) Why the OSPF protocol is now widely used as the interior router protocol in TCP/IP network? Explain briefly.  
b) Explain about the unicast, multicast and broadcast routing.
8. Write short notes on any two of the following:
  - a) Socket programming
  - b) Internet and web protocol
  - c) Connection establishment and termination

\*\*\*\*\*