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Roll No .....

## MSE-301(A)/MCSE/MCTA-301(B)/ MCIT-301(C)

## M.E./M.Tech. III Semester

Examination, June 2016

## Web Engineering (Elective-I)

Time: Three Hours

Maximum Marks: 70

**Note:** There are Eight questions in this paper. Solve any five questions. (all parts are to be solved)

1. a) Discuss the idea of a port. What is the difference between a Port and a Socket?

b) Describe:

2+5=7

- i) The three parts of an IP address,
- ii) Various fields in the IP datagram header.
- a) What is meant by MTU? Explain the concept of fragmentation and reassembly of IP packets.
  - b) How does the Address Resolution Protocol (ARP) work? What is ARP Cache?

3. a) i) What is RARP? How does it work?

ii) What are the characteristics of BOOTP? 3

b) Write notes on the following routing protocols.

- i) OSPF
- ii) BGP

| 4. | a) | How does the 'three-way handshake' for creating a To | CP |
|----|----|--|----|
|    |    | connection work? What factors make TCP reliable?     | 7  |

- b) Which of the two protocols TCP and UDP, can be used for transfer of critical data? Why?
- 5. a) Which is the underlying protocol of 'ping' command? What is the purpose of 'ping'? How does ping work? 7
  - b) Which protocol is used to transfer files between two computers? How does it work?

6. a) Define the terms:

- 7

7

- i) Web site
- ii) Web page
- iii) Web servers
- iv) URL
- v) Home page
- vi) Firewall
- vii) Web browser
- b) What is the purpose of HTTP? Discuss any three HTTP commands. Why is HTTP called as a stateless protocol?
  Why is it so?
- 7. a) Explain the significance of a DNS server. How does it work?
  - b) What is meant by remote login? Which protocol is used for remote login? Explain its working.
- a) How SMIP and POP protocols are used for transmission and retrieval of email messages?
  - b) What is a 'Proxy server'? Write its functions.

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