Total No. of Questions: 8]

[Total No. of Printed Pages: 2

Roll No

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

M.E./M.Tech., III Semester

Examination, December 2017 **Web Engineering**

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

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ii) All questions carry equal marks

- A class B network on the internet has a subnet mask of 255.255.240.0. What is the maximum number of hast per subnet?
 - What is loop back address? Must the loop back address be 127.0.0\1?
- What is ARP? How is it different from RARP? Which one will be used in case of diskless environment, also explain ARP cache.
 - What is MTU? How do IP routers handle the problem of networks with heterogeneous MTUs?
- A company is granted the site address 190.56.0.0. The company needs 1000 subnets. Design the subnets.
 - Describe the situations in which ARP should be used.

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What do you understand by IP routing? Explain any two dynamic routing protocols.

- What is RIP? Discuss it operation and problem associated with it.
- 5. Give the format of UDP datagram and explain the semantics of every field. How is the checksum in the header computed explain with example.
- What are the services provided by TCP
 - Which ports are used by BOOTP? Explain.
- What is sily window syndrom? Explain flow control for TCP.
 - Explain TELNET, FFP protocol.
- Write a short notes (any three):
 - TCP/IP applications
 - TFIP

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- iii) ICMP
- iv) OSPF

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