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Roll No .....

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

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

Examination, November 2018

**Web Engineering**

(Elective-I)

Time : Three Hours

Maximum Marks : 70

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

1. a) Explain the role of MTU in transferring the data? What is the minimum network MTU required to send an IP datagram that contain atleast one octet of data?  
b) What is Port number? Describe the purpose of Port Address.
2. a) Explain the various routing algorithm for the internet.  
b) A company is granted the site address 206.78.64.0. The company needs six subnets. Design the subnets.
3. Explain the ICMP in term of the following:
  - i) Host unreachable
  - ii) Protocol unreachable
  - iii) Port unreachable
  - iv) Redirect
  - v) Time exceed
  - vi) Source quench

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4. a) In given IP address 130.4.101.129 and mask 255.255.255.192. Find the following term
  - i) Subnet address
  - ii) How many Host
  - iii) How many subnet
 b) Explain any one dynamic routing.
5. a) What are the types of options provided with TCP header?  
b) Explain UDP checksum with tacking a suitable example.
6. a) What is FTP? Is it possible to access a file through FTP without having a valid user name and password? If yes, then how and what is it known as?  
b) Explain SMTP protocol.
7. a) Give the format of UDP Datagram and explain the semantics of every field.  
b) Explain IP record route and IP time stamp option.
8. Write a short notes (any three) :
  - a) TFIP
  - b) RARP
  - c) DNS
  - d) Proxy ARP

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