

Roll No.....

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12559/2007

**M. Tech. EXAMINATION, DEC. 2007**

(First Semester)

Computer Engineering

MTCE-607-A

**INTERNET AND WEB DEVELOPMENT**

*Time : Three Hours*

*Maximum Marks : 100*

**Note :** Attempt any *Five* questions. All questions carry equal marks.

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. Complaints in this regard, if any, will not be entertained after the examination.

1. (a) Explain all the classes in classful addressing scheme. 10

**P.T.O.**

- (b) Find the netid and hostid of 192.8.56.2  
and 205.23.67.8. 5
- (c) Draw a diagram of a network with IP  
address 8.0.0.0 that is connected  
through a router to a network with IP  
address 131.95.0.0. Choose IP  
addresses for each interface of the  
router. 5
2. (a) What is the role of supernetting ? Give  
example. 10
- (b) What is classless internet addressing ?  
Explain with example. 10
3. (a) Explain the role of PPP and SLIP  
protocols. 10
- (b) An organization is granted a block of  
addresses with the beginning address  
14.24.74.0/24. The organization needs  
to have 11 subnets as shown below :
- (i) two subnets, each with 64 ad-  
dresses
- (ii) two subnets, each with 32 ad-  
dresses

(iii) three subnets, each with 16 addresses

(iv) four subnets, each with 4 addresses.

Design the subnets and give addresses for each subnets. 10

4. (a) Discuss error reporting messages of ICMP.. 10

(b) Discuss the structure and fields of request and response messages in HTTP. 10

5. (a) How do you access a web server ? Explain using client server model. 10

(b) Explain the purpose of RIP. 10

6. (a) Explain the architecture of a search engine. 10

(b) Explain the purpose and difference between general and focused crawler. 10

7. (a) Explain the purpose of a DOM or HTML tag tree ? 10

(b) Explain the concept of SOAP. 10

8. Write short notes on the following : 20

(a) Client Server Model

(b) ARP and RARP

(c) IIS

(d) IGMP.