

Roll No .....

**IT - 603****B.E. VI Semester**

Examination, June 2016

**Internet Technology and Network Management****Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.  
 ii) All parts of each questions are to be attempted at one place.  
 iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.  
 iv) Except numericals, Derivation, Design and Drawing etc.

1. a) What are the contents of IPv4 header?  
 b) What is IP routing?  
 c) What do you mean by address resolution?  
 d) Discuss about subnet mask? Take an example to calculate.

OR

Give a detailed comparative study of IPv4 and IPv6.

2. a) What is ICMP header?  
 b) What is the utility of trace route?  
 c) What is ping program?  
 d) Discuss Path Vector Routing in details.

OR

Discuss about Unicast Routing Protocols in details.

3. a) What do you mean by TCP?  
 b) What is queuing?  
 c) Discuss State Transition diagram.  
 d) What is UDP? Discuss about UDP header and UDP Checksum in details.

OR

What is SCTP? Discuss about its service and packet format in details.

4. a) What is DNS?  
 b) What is FTP?  
 c) Discuss about the following :  
     i) SMTP                      ii) POP  
 d) What is DHCP? How is configured?

OR

Discuss about SNMP and its component.

5. a) What is IMAP?  
 b) How can you store a log of visited site through a computer on a server?  
 c) How can you provide a secured login to a proxy server?  
 d) Discuss about Fault Management System regarding a computer network.

OR

Discuss about Security Management issues of a computer network.

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