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Roll No

IT-603 B.E. VI Semester

Examination, December 2016

Internet Technology and Network Management

Time: Three Hours

Maximum Marks: 70

Note: i) Answer any five questions.

- ii) Each questions carries equal marks.
- iii) Assume suitable data if missing.
- a) Describe the packet format of ARP protocol? Also, give its functions?
 - b) Explain intra and inter domain distance vector routing. 7
- a) An organization is granted the block 217.16.170.22/16.
 The organization wants to create 64 subnets?
 - i) Find the subnet mask
 - ii) Find the number of addresses in each subnet
 - iii) Find the first and the last address in first subnet
 - iv) Find the first and the last address in last subnet
 - Explain the header format and different field s of IPv4 Protocol.
- a) What are the limitations of IPv4 protocol? How these can be overcome in IPv6? Also, make a comparison between IPv4 and IP v6.
 - b) Describe the various types of ICMP messages?

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4.	a)	Explain address allocation and configuration with packe	
		format of DHCP Protocol.	7

- b) Describe FTP in brief? Also, explain how it is different from HTTP? 7
- 5. a) Describe the working of OSPF with suitable example. 7
 - b) Describe the working of RIP with suitable example. 7

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- 6. a) Explain TCP connection establishment and termination process with the help of state transition diagram? 7
 - b) Explain UDP along with its and Header? How UDP checksum is calculated, explain with example? 7
- a) Explain address resolution mechanism in DNS? Also, define Resolver?
 - b) Describe two major management components of SNMP?

 a) Explain BOOTP along with its packet format? How it is different from DHCP?

b) Make a comparison between POP and IMAP protocols?

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