Roll No ...................................

# IT-603

## B.E. VI Semester

Examination, June 2013

## Internet Technology & Network Management

### Time : Three Hours

Maximum Marks : 100          Minimum Pass Marks :3

Note: Attempt any five questions. All questions carry equal mark:

1. a) Explain the requirement of subnet mask with suitabl example. RGPVONLINE.COM

   b) Explain ARP cache and how many hosts are allowed p subnet if the subnet mask used is 255.255.255.252.

2. a) Given the IP address 190.1.42.3 and the mas 255.255.255.224. Calculate.

   i)   Subnet Address

   ii)  Broadcast Address

   iii) What are the Assignable IP Address in this subnet.

   b) How many hosts are allowed per subnet if the subnet ma used is 255.255.255.192?

3. a) Explain split Horizon and infinity problem?

   b) Name three features of RIP2 protocol?

4. Explain following term in ICMP with suitable example.

   i)   Host unreachable

   ii)  Destination unreachable

   iii) Protocol unreachable

   iv)  Trace Route.

5. a) How does UDP server design.

   b) What is the UDP checksum? What is the function of it.

6. a) What is the purpose of state transition diagram?

   b) What is socket address? Write any program to show the concept of socket?

7. a) Write the difference between FTP and TFTP protocol?

   b) Explain BOOTP and SMTP?

8. What are the core components of configuration management? Discuss core processes involved with it.

9. Describe security and Accounting management?

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