Roll No ....

IT-6001-CBGS

B.E. VI Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Internet Technology and Network Management

Time : Three Hours

Maximum Marks : 70

Note: i)   Attempt any five questions.

     ii)   All questions carry equal marks.

1. a)   Explain the need and importance of Fragmentation and Reassembling process in IPv4 routing in detail along with diagram.

   b)   What is the need of subnetting. Explain the situation where subnetting justifies. Take a suitable example to explain subnetting find out the probable address also.

2. a)   Explain ICMP in detail along with the structure of header also explain each component of header with suitable example.

   b)   Explain link state routing in detail along with working procedure.

3. a)   Explain the need and importance of socket along with in its application also explain the detail procedure to create a suitable socket for an application.

   b)   Discuss fault management briefly.

IT-6001-CBGS   PTO

4. a) Differentiate between DHCP and State IP server also explain the suitability in each case. In case of IP conflict which service are easy to trouble shoot and why? The proper example which justifies your answer.

   b) Explain FTP communication services in detail along with packet format.

5. a) Explain the features of MNS Application in detail. Also explain the procedure to set up MNS in an installation.

   b) Explain the critical parameters to be considered while designing a policy base Network Management in a institution by keeping the legal offset in consideration as a National level policy.

6. a) Compare the IPv4 Vs IPv6 communication protocol in detail along with packet format in detail.

   b) Explain in detail the Distance Vector Routing along with its working and various packet format it uses while communicating.

7. Explain in detail about the functionalities of SMTP specify the flow of SMTP commands between the client and the server.

8. a) Explain in detail the STCP services, also explain the need and importance of transmission sequence in communication take a suitable example to justify your answer.

   b) Differentiate the following protocol:
      i) Email
      ii) POP
      iii) IMAP
      iv) SNMP

******

IT-6001-CBGS