[4]

(c) Write short on any **two** :   7

    (i)   SMTP

    (ii)   DNS

    (iii) FTP

(d) Briefly explain about firewall, it's types and advantages.   7

322651(22)

BE (Sixth Semester) Examination, April-May 2019

(Old Scheme)

(CSE Branch)

COMPUTER NETWORK

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Attempt all questions. Part (a) of each question is compulsory. Attempt any **two** questions from (b), (c) and (d) of each question.*

Unit - I

1. (a) What is protocol?   2

(b) Explain TCP/IP reference model. How it is different from OSI reference model. 7

(c) Explain what do you mean by Topology? Explain any two with their advantages and disadvantages. 7

(d) Explain the term asynchronous communication and give in brief meanings of terms : 7

   (i) Broad band

   (ii) ISDN

   (iii) ATM

Unit - II

2. (a) What is frame? 2

(b) What is ALOHA? Differentiate between pure ALOHA and slotted ALOHA. 7

(c) What is HDLC, explain it with frame format? 7

(d) Explain any algorithm for error correction and detection with an example. 7

Unit - III

3. (a) What is router? 2

(b) Give comparison for vector and link state routing algorithm. 7

(c) Explain about IPV6 with header format. 7

(d) Write short note on any two : 7

   (i) RIP

   (ii) OSPF

   (iii) BGP

Unit - IV

4. (a) Why TCP is called end to end protocol? 2

(b) Explain Go-Back N and selective repeat sudrog window protocol. 7

(c) Explain about TCP protocol, its services and working in brief. 7

(d) Briefly explain about congestion control and it's categories. 7

Unit - V

5. (a) What is cryptography? 2

(b) What do you mean by MIME? Specify the detail of different MIME beeder along with their details. 7