333674(22)

B. E. (Sixth Semester) Examination, April-May 2021

(New Scheme)

(IT Branch)

INTER NETWORKING with TCP/IP

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt any two from Q. No. (b), (c) and (d)
and Q. No. (a) is compulsory from each unit.

Unit-I

1. (a) Define internetworking? List some device of
   internetworking.   2

   (b) What is OSI and TCP/IP? Compare both the
   models.   7

(c) What is Switching Technology? What is the types of switching? 7

(d) Explain each internetworking devices and functions of it. 7

Unit-II

2. (a) What is internet protocol and datagram? 2

(b) Define Addressing. Explain classless and classful addressing with example. 7

(c) Explain IPV_4 and IPV_6 with packet formate. 7

(d) What is ARP and RARP? 7

Unit-III

3. (a) What is routing? Which layer is responsible for routing? 2

(b) Explain interior and exterior routing with types. 7

(c) Introduce multicast routing, explain. 7

(d) Write short note on : 7
   (i) CBT
   (ii) PIM
   (iii) MBONE

Unit-IV

4. (a) What is 'Token'? Define. 2

(b) What is Congetion Control? Explain leaky bucket and token bucket algorithm. 7

(c) Explain segmentation and reassembly. 7

(d) What is Checksum? How checksum can be calculated? 7

Unit-V

5. (a) Define ATM. 2

(b) Describe ISDN. Also explain ISDN layers with block diagram. 7

(c) Explain Multiplexing. Type of multiplexing with diagram and example. 7

(d) Explain with diagram ATM Layers. Functions of ATM layers. 7