322651(22)

B. E. (Sixth Semester) Examination, Nov.-Dec. 2019

(New Scheme)

(CSE Branch)

COMPUTER NETWORKS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

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

Unit - I

1. (a) What is the size of ATM cell?   2

   (b) What is OSI reference model? Write the different functions of each layer.   7

(c) What are the different design goals of ATM? 7

(d) What is ISDN? Explain services provided by ISDN. 7

Unit - II

2. (a) What is Fast Ethernet? 2

(b) Differentiate between CRC and Hamming code. Find out CRC remainder for data unit 1101011011 if divisor is 10011. 7

(c) Explain HDLC protocol with frame types. 7

(d) Explain working of IEEE 802·X standard ethernet. 7

Unit - III

3. (a) What is IP address? 2

(b) Differentiate between IPv4 and IPv6. 7

(c) Explain ICMP protocol with header format. 7

(d) Explain Link state routing with example. 7

Unit - IV

4. (a) Write two applications of UDP. 2

(b) What are the services provided by Transport layer? 7

(c) What do you mean by congestion control? 7

(d) Explain SSL & TLS in detail. 7

Unit - V

5. (a) What is DNS? 2

(b) Explain how web and HTTP protocol are related? 7

(c) What do you mean by firewall? Explain types of firewall. 7

(d) Explain the RSA algorithm with suitable example. 7