

MSCCS-11/MSCCS-205/MCA-205

June - Examination 2019

MSCCS-Final/MCA-II Year Examination**Data Communication and Networks****Paper - MSCCS-11/MSCCS-205/MCA-205****Time : 3 Hours]****[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A**8 × 2 = 16**

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 word. Each question carries 2 marks.

- 1) (i) What do you mean by Baud rate?
- (ii) Give a definition of Data Communication.
- (iii) What is IEEE 802.3?
- (iv) Name any two routing protocols.
- (v) What is Tunneling?
- (vi) Give two examples of IP address.
- (vii) What is the use of cyclic redundancy check?
- (viii) Give an example of mesh topology.

Section - B**4 × 8 = 32**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

- 2) What is modem? Explain its working.
- 3) What is Computer Networks? Discuss the applications of computer networks.
- 4) Explain different types of guided transmission media used in the physical layer.
- 5) Explain the TCP congestion policy with suitable example.
- 6) Write a short note on Remote Procedure Call.
- 7) Explain various services provided by IPsec.
- 8) What is the relation between the transport layer and network layer? Explain in brief.
- 9) Distinguish between synchronous and asynchronous transmission mode.

Section - C**2 × 16 = 32**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

- 10) Discuss the comparison among LAN, MAN, WAN and Wireless Network with suitable example.
- 11) What are the major services of the data link layer? Explain various data detection and correction methods in the data link layer.
- 12) What do you mean by Routing? Explain distance vector and Link State routing algorithm with suitable example.
- 13) Write short note on:
 - (a) Domain name system
 - (b) Code division multiple access
