

Section–C

2×16=32

(Long Answer Type Questions)

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

10. What is Multiplexing ? Explain division multiplexing and frequency division multiplexing with suitable examples.
11. What is an IP address ? Distinguish between IP version 4 and IP version 6.
12. Explain the working of Hubs, Bridges, Switches and Routers.
13. What do you mean by layered architecture ? Explain the OSI model in detail.

MSCCS-11/MSCCS-205/ (4)
MCA-205 / 360 / 4

740

**MSCCS-11/MSCCS-205/
MCA-205**

June – Examination 2020

**MSCCS (Final)/MCA (IInd Year)
Examination**

Data Communication and Networks

Paper : MSCCS-11/MSCCS-205/MCA-205

Time : 3 Hours]

[Maximum Marks : 80

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

Section–A

8×2=16

(Very Short Answer Type Questions)

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

MSCCS-11/MSCCS-205/ (1)
MCA-205 / 360 / 4

Turn Over

1. (i) What is Round trip time ? Give an example.
- (ii) What is the need of Parity Bit ?
- (iii) What do you mean by routing in computer networks ?
- (iv) Give any *two* differences between intranet and internet.
- (v) What do you mean by broadcast network ?
- (vi) Give the definition of wavelength.
- (vii) Give any *two* differences between symmetric key and asymmetric key.
- (viii) Suppose there are 'n' nodes in a network, then what is the number of links needed to connect the network in ring topology.

Section-B **4×8=32**

(Short Answer Type Questions)

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

2. What is a Transmission media ? Explain various types of transmission media used in computer networking.
3. Distinguish among LAN, WAN and MAN with the help of suitable examples.
4. What is a slow start mechanism ? Explain how it plays a role in congestion control ? Explain with suitable example.
5. Write a short note on the Secure Socket Layer.
6. Explain ARP (Address Resolution Protocol) and Reverse Address Resolution Protocol.
7. Explain sliding window protocol with suitable examples.
8. Describe the relation between transport layer and network layer of OSI model.
9. What is Modem ? Describe working of the Modem in detail.