

**P-879**

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# **MCS-506**

## **Introduction to Computer Networks**

(MCA/MSBIT)

2nd / 4th Semester Examination, 2023 (June)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Describe the functions of various layers of the TCP/IP model.

2. Explain and compare the characteristics of Guided and Unguided transmission media? Draw and explain one example each of guided and unguided media.
3. What is computer network? Describe various types of network.
4. Explain various types of transmission mode with example.
5. What is cryptography? Explain the term 'encryption' and 'decryption' in cryptography, with example.

## **SECTION-B**

### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. What is an IP address? Discuss the function of domain name system.
2. Differentiate between connection oriented and connectionless services.
3. What are the Key features of the 5.3.2.2 Ethernet Architecture?

4. Explain about Internet information services.
  5. Explain point to point networks in detail.
  6. Explain the following terms :
    - (a) Access control policies.
    - (b) Network Address Translate.
  7. What is the role of protocol in Network? Explain FTP.
  8. What is the difference between Analog and Digital signal?
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