

# P-862

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Roll No. ....

## MIT(CS)-403

### Introduction to Networking

M.Sc. Cyber Security (MCCS)

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. Explain in brief about the Guided and Unguided media used in Networks.

2. Explain with the help of suitable examples different classes of IP address.
3. Explain the concept of fragmentation giving suitable example.
4. List and explain the fields of IPv6 base header in brief.
5. Describe CSMA/CD protocol used in LAN.

### **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. Demonstrate with the help of suitable example how the digital data is suitable for communication purposes than analog data?
2. Differentiate between OSI & TCP/IP model.
3. What is the difference between router and switch?
4. How packet switching is different from circuit switching?

5. Explain the following concepts :
    - (i) VPN.
    - (ii) NAT.
  
  6. List and explain the characteristics of HTTP.
  
  7. Write short note on :
    - (a) Cyclic Redundancy Checks (CRC).
    - (b) Simple Parity Checking.
  
  8. Compare and contrast connection-oriented and connectionless services.
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