

# **S-760**

**Total Pages : 3**

**Roll No. -----**

## **MIT(CS)-403**

**Introduction to Networking**

**M.Sc. Cyber Security (MCCS)**

**4<sup>th</sup> Semester, Examination 2022(Dec.)**

**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.

### **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 x 19 = 38]

P.T.O.

- Q.1. What is Multiplexing? Explain FDM and TDM. Give suitable examples.
- Q.2. Explain OSI reference model. Describe the function performed by each layer.
- Q.3. Describe the different transmission media using network.
- Q.4. Briefly explain the various fields in IPv4 and IPv6 frame formats.
- Q.5. What is framing? Why framing is necessary? Explain different framing techniques used in data link layer.

### **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 x 8 = 32]

- Q.1. Explain briefly applications of computer networks.
- Q.2. What is the difference between bit rate and baut rate?  
Explain with an example.
- Q.3. Explain the functions of the layers in the TCP/IP model?
- Q.4. Explain FDDI in detail.
- Q.5. Explain distance vector routing in detail.
- Q.6. Explain the following routing protocols:  
(i) RIP  
(ii) OSPF
- Q.7. Explain the working of SNMP protocol.
- Q.8. Explain in detail about narrow band ISDN and broad band ISDN.

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