

A-0883

Total Pages : 4

Roll No. -----

MCS-506/MIT (CS)-403

Introduction to Computer

Networks/Introduction to Networks

(MCA/MSCT/MSCCS)

2nd / 4th Semester Examination 2024(Dec.)

Time: 2:00 hrs

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 answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

P.T.O.

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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.

[2x19=38]

- Q.1. Define Computer Network? Explain the types of Computer Network.
- Q.2. With a neat sketch, explain the architecture of OSI model.
- Q.3. Define Transmission Media. Explain the difference between Guided and Unguided Transmission media with an example.
- Q.4. Explain connection oriented and connectionless services in brief.
- Q.5. What is topology? Explain various network topologies in brief.

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.

[4x8=32]

Q.1. What is Internet? What are the applications of Internet? Explain.

Q.2. What is data communication? What are the basic components of data communication? Explain.

Q.3. Explain the difference between OSI and TCP/IP model.

Q.4. Explain the concept of ALOHA.

Q.5. Explain the following terms:

- i. Broadcast networks
- ii. Point-to-point networks

P.T.O.

- Q.6. What is Digital Signal? Explain the difference between Baseband and Broadband Signal.
- Q.7. What is Bluetooth? Explain Bluetooth Architecture in detail.
- Q.8. Explain the various types of multiplexing.
