

C1010

Total Pages : 3

Roll No.

MIT (CS)-403

Introduction to Networking

M.Sc. Cyber Security (MSCCS-18/21)

4th Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) 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 Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Define computer Network. Explain different types of Computer Networks.

2. What is topology? Explain various network topologies in brief.
3. Explain connection oriented and connectionless services in brief.
4. What is Internet? What are the applications of Internet explain in brief.
5. Define Transmission Media. Explain the difference between Guided and Unguided Transmission media with an example.

SECTION–B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Explain the difference between OSI and TCP/IP model.
2. Explain the various types of multiplexing.
3. Write short note on:
 - (a) ISDN.
 - (b) Frame Relay.
 - (c) Virtual Circuits.
 - (d) Asynchronous Transfer Mode.

4. Explain the concept of ALOHA.
 5. Explain Bluetooth Architecture in detail.
 6. Explain the following terms :
 - (a) Broadcast networks.
 - (b) Point-to-point networks.
 7. What is Data and Signal? Explain the components of data communication.
 8. What is Digital Signal? Explain the difference between Baseband and Broadband Signal.
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