Faculty of Computer Applications and Information Technology

MSc (IT)- Programme - 2023-25 Batch

Computer Communication and Networking (210801202)

Assignment 1

1. Draw the layered architecture of OSI reference model and write the functionality of each layer.

2. Draw the layered architecture of TCP/IP model (or Internet protocol stack) and write the functionality of each layer.

3. What is Multiplexing in computer networks. List out and explain it with diagram.

4. List out the Guided and Unguided (Wireless) Transmission media. And explain in briefly.

5. Define Term:-
   a) Data Rate
   b) Bandwidth
   c) Channel Capacity
   d) Nyquist Formula
   e) Shannon Capacity

Instructions:-

- The deadline for the above assignment is Wednesday, 24-02-2024. Late submissions will not be accepted.
- The assignment needs to be submitted in handwritten format in pinned papers, no long books required. Mention references for showing examples. If the references are missing, negative marking will be implemented.
- Answers will cross examined for plagiarism. Do not use any automation tools to generate answers. If the answers fail in plagiarism check, student will be marked as zero.