12453

MCA 1st Semester (Regular/Re-appear/Improvement) Examination – December, 2024

COMPUTER NETWORKS

Paper: MCA-2103

Time: Three Hours] [Maximum Marks: 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

- 1. Write short notes on the following:
 - (a) Multiplexing
 - (b) Digital signals
 - (c) WAN
 - (d) ATM
 - (e) Flow control

- (f) IEEE standards
- (g) Switch
- (h) IRC

I-TIND

- Draw the block diagram of general communication model and explain the function of each block.
- Discuss transmission medium in detail.

II - TINU

- Discuss different network topologies with their merits and demerits.
- 5 Explain OSI reference model in detail.

III - TINU

- 6 purpose of sliding window protocol. What is sliding window protocol? Also write the
- Discuss CSMA/CD protocol with its purpose in detail.

VI - TINU

- quality of service. Explain congestion control in detail. Also discuss
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- **9.** Write short notes on the following:
- (a) TCP and UDP
- (b) DNS