

2111040101040002
EXAMINATION MARCH-APRIL 2024
MASTER OF COMPUTER APPLICATIONS (FIRST SEMESTER)
COMPUTER NETWORK (COURSE-104) - LEVEL 4

[Time: As Per Schedule]

[Max. Marks:70]

Instructions:

- 1. Fill up strictly the following details on your answer book**
 - a. Name of the Examination : **MASTER OF COMPUTER APPLICATIONS (FIRST SEMESTER)**
 - b. Name of the Subject : **COMPUTER NETWORK (COURSE-104) - LEVEL 4**
 - c. Subject Code No : **2111040101040002**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Do as directed:- **14**

[A] Define: OSI. Write a note on OSI reference model. **7**

[B] Why switching is required? Explain any one method of it. **5**

OR

[B] How modem, router and gateway are used in the computer network?

[C] Define: PSTN. **2**

Q.2 Do as directed:- **14**

[A] Explain Cyclic Redundancy Check method using proper example. **7**

[B] Write a note on control variables used in the flow-control mechanisms. **5**

OR

[B] Explain byte stuffing framing method using example.

[C] Which are the sub-layers of Data link layer? **2**

Q.3 Do as directed:- **14**

[A] Explain Distance Vector routing algorithm using proper example. **7**

[B] Justify: TCP is a Reliable Protocol. **5**

OR

[B] Write a note on classful addressing.

[C] What is the use of Subnet Mask? **2**

Q.4 Do as directed:- **14**

[A] Write a note on DES. **7**

[B] Explain keyless transposition cipher using proper example. **5**

OR

[B] Explain translation and compression/decompression service.

[C] What is substitution? **2**

Q.5 Do as directed:- **14**

[A] What is the importance of Application layer? Explain functions of it. **7**

[B] Write a note on Virtual terminal. **5**

OR

[B] Explain how email is transferred from client to server?

[C] What is DNS? **2**
