

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Web Technologies & Multimedia) (Sem.-4)

COMPUTER NETWORKS

Subject Code : BVWM-403-19

M.Code : 79511

Date of Examination : 17-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- What do you mean by simplex mode of communication?
- What do you mean by MAN? What makes it different from LAN?
- List various design issues of session layer.
- What is World Wide Web (WWW)?
- Name any two shortest path routing protocols commonly used in computer networks.
- What is wavelength division multiplexing?
- What is the principle behind TCP protocol?
- List the key functions of the network layer.
- What is Domain Name System (DNS)?
- What do you mean by asynchronous communication?

SECTION-B

2. Differentiate between packet switching, circuit switching and message switching techniques.
3. How guided media is different from unguided media used in data transmission?
4. List and explain various data compression techniques.
5. Explain the concept of Token Ring (IEEE 802.5) with an example.
6. Discuss various error control techniques at data link layer.

SECTION-C

7. Differentiate between TCP/IP and OSI model. Explain the features of each layer with an example.
8. What are different causes of congestion in computer networks? Explain various mechanisms used for congestion control.
9. **Write short notes on:**
 - a. Optical fiber transmission
 - b. Leaky bucket algorithm.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.