

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (Sem.-3)
ADVANCED COMPUTER NETWORKING

Subject Code : PGCA1925

M.Code : 90798

Date of Examination : 12-06-2024

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION -B & C carrying TEN marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1. Write short notes on :

- a) Define Multiplexing.
- b) Discuss hamming code.
- c) Write about sliding window protocol.
- d) What is principle of congestion control?
- e) Write about FTP.
- f) Define WLAN.
- g) What is the use of IEEE 802.11?
- h) Compare Adhoc vs cellular networks.
- i) Discuss TDMA.
- j) What is Frequency reuse?

SECTION-B

2. Discuss in detail the OSI model used in Computer Networks?
3. **Define following :**
 - a) Transmission media
 - b) Error detection and correction codes.
4. Write the various routing algorithms used in networking.
5. Explain the addressing and flow control on transport layer.

SECTION-C

6. Discuss in detail the Wireless and Mobile Networking Technologies.
7.
 - a) **Write a note on** features of Adhoc Network.
 - b) Give the introduction of MAC Protocols.
8. Discuss the evolution of 2G cellular networks. How it is used for wireless communication?
9. How would the coverage and capacity improvement be done in cellular systems?

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