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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 : 29-11-2024

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

I. Write short notes on the following :

- a) What are the goals of Computer Networks?
- b) What is ALOHA?
- c) Find the netid and hostid in 132.57.8.6 the IP address
- d) What are the transmission impairments?
- e) Write down four differences between UDP and TCP.
- f) What is a cellular network?
- g) What is the difference between hard handoff and soft handoff?
- h) Give four examples of wireless communication systems.
- i) List the features of Adhoc networks.
- j) What is frequency reuse factor?

SECTION-B

2. a) Write down the applications of Computer Networks.
 b) What are the design issues of transport layer? Also write down the type of addresses used by the transport layer and their size.
3. What is selective repeat ARQ sliding window protocol? How it is used to manage flow control? Explain with the help of diagrams.
4. Write a detailed note on wireless transmission media.
5. Define Routing. Explain the working of Distance Vector Routing algorithm.

SECTION-C

6. What is IEEE 802.11 network? List the components of IEEE 802.11 architecture and explain the main fields included in IEEE 802.11 frame format.
7. What is an Adhoc network? List the routing protocols used in Ad-hoc networks. Also explain the working of Ad-hoc on demand distance vector routing algorithm.
8. Explain the coverage and capacity improvement techniques for cellular systems.
9. a) Describe evolution for 2.5G TDMA Standards.
 b) List five issues in seamless mobility in reference to wireless networks.

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.