

Total No. of Questions : 8]

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Roll No

MCADD-805 (1)

M.C.A. (Integrated), VIII Semester

Examination, May 2023

Mobile Computing

(Elective - IV)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Discuss the frequency spectrum for radio transmission with the application of each frequency range.
b) Discuss the various types of multiplexing with appropriate diagrams.
2. a) What are the objectives of GSM system? Discuss the GSM architecture with suitable network diagram.
b) How does call routing in GSM architecture take place? Discuss it with call routing diagram.
3. a) Discuss the wireless LAN with its advantages and disadvantages. Also discuss the design goals for a wireless LAN.
b) Discuss the IEEE 802.11 protocol architecture with suitable diagram.

4. a) Explain the AODV routing scheme with its applications and examples.
b) Differentiate ZRP and ODMR routing schemes with their application.
5. a) Discuss the mobile TCP for fast retransmit /fast recovery of data with differences of standard TCP and mobile TCP.
b) Discuss the WAP model with its architecture and environment. Also differentiate wireless session protocol and wireless transaction protocol.
6. a) Discuss the various types of analog modulation techniques and digital modulation techniques with suitable waveform diagrams.
b) Discuss the need of Handoff. Also explain types of handover based on source and target cell.
7. a) Discuss the basic service set and independent basic service set.
b) How are the packets routed through internet using mobile IP? Explain with suitable diagrams.
8. a) Discuss the snooping TCP model. How it is used to remove the drawbacks of standard TCP model with suitable diagram.
b) Differentiate between CDMA and SDMA with their applications.
