

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

Full marks:20

1. Choose the correct alternative for the following (any five):

- I. Which of the following technology uses wireless communication mode to exchange data or transfer data between several mobiles in the short-range?
 - a. Bluetooth technology
 - b. Ad hoc computing
 - c. Mobile computing
 - d. None of the mentioned
- II. Which of the following protocol enables access to the internet from a mobile device?
 - a. HTTP (Hypertext Transfer Protocol)
 - b. WAP (Wireless Application Protocol)
 - c. ISD (International Subscriber Dialing)
 - d. TCP/IP (Transmission Control Protocol)
- III. In mobile computing, HLR is the abbreviation of which the following?
 - a. Home Live Register
 - b. House Live Register
 - c. Home Location Register
 - d. House Location Register
- IV. The packet mode data transfer service is offered by which of the following protocol?
 - a. TCP (Transmission Control Protocol)
 - b. GSM (Global System for Mobile communication)
 - c. GPRS (General Packet Radio Service)
 - d. None of the mentioned
- V. What is the full form of SIM?
 - a. Station Identity Module
 - b. System Identity Module
 - c. Subscriber Identity Module
 - d. None of the above
- VI. What is Mobile communication?
 - a. Allows to communicate from different locations without the use of physical medium
 - b. Allows to communicate from different locations with the use of physical medium
 - c. Allows to communicate from same locations without the use of physical medium
 - d. Allows to communicate from same locations with the use of physical medium
- VII. Which of the following usually stores all user-related data that is also relevant to GSM mobile systems?
 - a. VLR
 - b. HMR
 - c. CMR
 - d. SIM
- VIII. Which of the following is known as one of the responsibilities of mobile Switching Centre (or MSC) in cellular telephone systems?
 - a. Connection of mobile to PSTN
 - b. Connection of base station to MSC
 - c. Connection of mobile to base stations
 - d. All of the above

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2.Fill in the blanks

[1x5=5]

- a. GSM stands for _____
- b. BSS stands for _____
- c. HLR stands for _____
- d. VLR stands for _____
- e. BTS stands for _____
- f. BSC stands for _____
- g. IMSI stands for _____

3.Answers the following questions (any three)

[2x2=4]

- a. What is the difference between data network and voice network?
- b. What is mobile computing? Advantages and limitation of mobile computing
- c. What is Bluetooth? How is Bluetooth useful in mobile computing?
- d. What is GSM?
- e. What is cell?

4.Answer the following questions (any one)

[6x1=6]

- a. Discuss the architecture of a mobile telecommunication system using a suitable schematic diagram.
- b. Explain the different hardware components that are used in a wireless network?
- c. Briefly explain how a call can be setup between two mobile phones?

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