

CBCS SCHEME

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18CS821

Eighth Semester B.E. Degree Examination, July/August 2022 Mobile Computing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Illustrate the stepwise call routing procedure between two entities in GSM. (10 Marks)
b. Describe GSM entities with its architecture along with a neat diagram. (10 Marks)

OR

- 2 a. What are the abstract functions of the three-tier architecture for mobile computing? Illustrate with a neat diagram. (10 Marks)
b. What is the importance of IP Header with respect to mobile IP? Draw the frame structure of IP header along with its fields. (10 Marks)

Module-2

- 3 a. Bring out the differences between GSM and 3G. (10 Marks)
b. Illustrate the attachment and detachment procedure in GPRS network operation with a neat diagram. (10 Marks)

OR

- 4 a. What are the design constraints in applications for handheld devices. (10 Marks)
b. Explain : i) GPRS protocol stack diagram ii) Protocol architecture of GPRS. (10 Marks)

Module-3

- 5 a. Illustrate the salient features of smart client architecture with a neat diagram. (10 Marks)
b. Brief the importance if the Palm OS architecture with a neat diagram. (10 Marks)

OR

- 6 a. Demonstrate the development cycle using device emulators with a neat diagram. (10 Marks)
b. Illustrate the wireless architecture with direct connectivity to wireless carrier and using a wireless ISP. (10 Marks)

Module-4

- 7 a. Bring out the stages of a wireless internet request with a neat diagram. (10 Marks)
b. Explain the WAP architecture and its relationship to the OSI model with a neat diagram. (10 Marks)

OR

- 8 a. Bring out the differences between XHTML based and XHTML-MP. (10 Marks)
b. With a WML code for inventory sample. (10 Marks)

Module-5

- 9 a. Describe the states in a player's lifecycle of a media player. (10 Marks)
b. Explain the security considerations in MIDP. (10 Marks)

OR

- 10 a. Explain the MIDlet lifecycle. (10 Marks)
b. Write a short note for the following: i) CDC ii) CLDC. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.