Paper / Subject Code: 89283 / Mobile Computing

TE (Comp) Sem VI R'19 C-scheme
20-05-2025

Time: 3 Hours                                                                                            Marks:80

Instructions to Candidates
1. Question Number 1 is Compulsory, solve any 3 from Remaining Questions
2. Please Specify your answers with neat sketch wherever Necessary
3. Assume any suitable Data and Mention the same in your answer.

Q1. a) Explain Function of Each unit of GPRS Architecture in detail. Draw a neat sketch for
the same.                                                                                                              10

b) Explain in detail, How Agent Registration Takes Place?                                   05

c) Why the size of the cells is kept smaller in Cellular network? Explain.             05

Q2. a) Explain A3, A5 and A8 algorithm in detail                                                 10

b) Describe on Wireless Security in reference to WEP, WPA, Wireless LAN Threats   10

Q3 a) what is Tunnelling and Encapsulation? List Various Encapsulation Schemes in detail   10

b) What happens when a Mobile Node shifts from one region to another Region? Explain
various Handover Mechanisms in GSM.                                                                10

Q4 a) Draw the neat sketch of the GSM system? Explain each unit of GSM in detail          10

b) Explain in detail Mobile Terminated and Mobile Originated Call.                          10

Q5 a) Explain the problems such as Hidden Station, Exposed Station, Near Terminal and Far
Terminal with Possible solutions for the same.                                                      10

b) What are various Day to Day services that are enhanced with the existence of Mobile
Communication? Discuss at least 2 such services in detail                                       10

Q6 a) Write a Short Note on the following (Any 2)                                                   10
1) Bluetooth 2)IP Mobility 3)UMTS 4) Snooping TCP

b) Explain IP Packet Delivery to and From Mobile Node with neat sketch                    10

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Peg. code
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