

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
