

# BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

## QUESTION BANK

### Unit Test-I

**Program: - Computer Engineering Group**

**Program Code: IF**

**Course Title: Wireless and Mobile Network**

**Semester: - VI**

**Course Abbr. & Code: -WMN (316325)**

**Scheme: K**

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## CHAPTER 1 Introduction to GSM (CO1) 12 Marks

### 2 Marks

1. What is Roaming? (CO1)
2. Define the term Routing area, location area (CO1)
3. Which are different types of areas in GSM? (CO1)
4. List any four GSM services (CO1)
5. Define the term IMSI, IMEI (CO1)

### 4 Marks

6. Explain location update procedure in GSM with suitable diagram.
7. State various GSM control channels in brief.
8. Explain GSM Architecture in detail with neat sketch
9. Describe signal processing in GSM in detail.
10. Describe the process of mobile call termination in GSM with neat call flow sequence diagram.
11. Describe the process of mobile call origination in GSM with neat call flow sequence diagram.
12. With neat diagram, describe Hand Off procedure in GSM.

## CHAPTER-2 GPRS and Mobile Data Communication (CO2) 16 Marks

### 2 Marks

13. State four services of GPRS. (CO2)
14. Compare: GSM and GPRS. (CO2)
15. List features of Bluetooth. (CO2)
16. Write short note on Agents. (CO2)
17. Write characteristics of GPRS. (CO2)
18. Write the operating frequency of Wi-Fi and Wi-Max. (CO2)
19. State the advantages of 3G network system. (CO2)

**Marks 4**

- 20. Explain GPRS Architecture in detail with neat diagram. (CO2)
- 21. List and describe data services in GPRS. (CO2)
- 22. Describe Routing of packets in GPRS. (CO2)
- 23. Explain Logical Channels in GPRS. (CO2)
- 24. Explain Wi-Fi. (CO2)
- 25. Write the concept of Wi-Max (CO2)
- 26. Write note on: Mobile IP. (CO2)
- 27. Explain Bluetooth technology. (CO2)
- 28. Draw and Explain block diagram of RFID. (CO2)

**CHAPTER-3 Wireless Application Protocols and 3G mobile services  
(CO3) 12 Marks****2 Marks**

- 29. State any two features of 4G Technology. (CO3)
- 30. List features of CDMA. (CO3)
- 31. State applications of WAP. (CO3)
- 32. Enlist the specifications of IMT 2000. (CO3)

**4 Marks**

- 33. Explain in detail concept Wireless Application Protocol (WAP) (CO3)
- 34. Write note on a) WAP gateway b) WAP Protocol. (CO3)