BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY QUESTION BANK

Unit Test-I (Shift:-I & II)

Program: - EJ

Semester: - V Course: MWC(315339)

Unit- I Wireless Communication Systems (12 M) 2 Marks Questions

- 1. List various wireless networks generation with example.
- 2. Define 1. Cell 2. Cluster
- 3.define 1. Base station 2.forward channel.

4 Marks Questions

- 4. Draw and explain block diagram of mobile phone unit.
- 5. Draw the block diagram of frequency synthesizer and explain it.
- 6. Draw the block diagram of receiver unit of mobile handset and explain it..
- 7. Draw the block diagram of Transmitter unit of mobile handset and explain it.
- 8. Define frequency reuse concept and draw frequency reuse pattern for cluster size 4,7.
- 9. Compare between fixed channel assignment and dynamic channel assignment.
- 10.List two types of sensors used in mobile phone and state their functions.

Unit -II Basics of Mobile communication systems (18 M)

2 Marks Questions

- 11 .Define co-channel interference and adjacent channel interference.
- 12. State capacity improvement methods for cellular system.
- 13. State function of HLR, VLR

4 Marks Questions

- 14. Describe cell splitting with its disadvantages .
- 15. Describe cell sectoring with its advantages
- 16. Justify"Micro cell zone concept is used to increase coverage and cell capacity", with diagram
- 17. State the features of GSM.
- 18. State air interference of GSM.
- 19. Draw GSM architecture.state function of MSC,BSC.
- 20. Describe mobile terminated call procedure with black diagram
- 21. Give classification of GSM channels and state function of broadcast control channel

Unit-III Fundamentals of 4G Communication (5M)

- 2 Marks Questions
- 22. State limitations of 3G.
- 4 Marks Questions.
- 23. Compare 2G,3G,4G