Bachelor level/ B.E. Computer/6th Semester   Full Marks: 50

Time: 3 hours   Pass Marks: 25

Subject: Wireless and Mobile Communication (CE552)

- *Attempt all the questions*
- *Figures in the margin indicate full marks.*
- *Assume suitable values, with a stipulation, if necessary.*
- *Candidates are required to answer the questions in their own words as far as possible.*

1. Explain the trends of mobile Communication briefly. **(5)**

2. What is the principle of frequency reuse? Explain cell-splitting and sectoring. **(3+2+2)**

3. What is interference? Explain GSM architecture in details. **(1+6)**

4. How can you differentiate analog and digital modulation? List out the pros and cons of digital modulation. **(3+3)**

5. Explain Binary Phase-shift keying with block diagram. **(6)**

6. Explain the operation of FDMA with the help of suitable diagram. **(4)**

7. a) Explain the procedure for call establishment. **(2)**

   b) What is DECT technology? Explain its architecture. **(1+3)**

8. Write short note on (*Any Three*); **(3x3)**

   a) LTE

   b) Okumura model

   c) CDMA

   d) Mobile OS

   e) Cell and cluster

The End