

Exam. Code : 208602

Subject Code : 4126

M.Sc. Information Technology 2<sup>nd</sup> Semester

MIT-201 MOBILE COMPUTING

Time Allowed—3 Hours] [Maximum Marks—100

**Note** :— Attempt any **five** questions in all, selecting at least **one** from each Section. **All** questions carry equal marks.

**SECTION-A**

1. Explain in detail about mobile and wireless devices with simplified reference model. Describe the frequency hopping spread spectrum. 20
2. Compare and contrast 2G, 2.5G, 3G and 4G wireless networks and standards. 20

**SECTION-B**

3. What is cellular system ? List the advantages and disadvantages of cellular systems. Explain in detail about cellular system with neat diagram 20
4. Compare TDMA, FDMA and CDMA. Explain IMT-2000 family with a neat diagram. 20

**SECTION-C**

- 5. Explain in detail about IEEE 802.11 protocol architecture, features and applications. 20
- 6. Give the basic objectives of the WAP. With neat sketch, explain the components and interface of WAP architecture. 20

**SECTION-D**

- 7. With neat sketch, explain the GSM system architecture. Give the security services offered by GSM. 20
- 8. List the four types of hand over mechanism in GSM. Explain SMS Protocol Hierarchy. 20