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Exam. Code : 208602 Subject Code : 5282

M.Sc. Information Technology 2nd Semester MOBILE COMPUTING Paper—MIT-201

Time Allowed—3 Hours] [Maximum Marks—100

Note :— Attempt any FIVE questions. All questions carry equal marks. Use of non-storage and nonprogrammable calculators is allowed for examinees.

- 1. Present an overview of various techniques, generations and types of wireless communication systems. 20
- Discuss wireless (LAN) communication standard. Also describe wireless in local loop and LMDS and MMDS.
 20
- 3. Describe the following concepts in cellular wireless context :
 - (a) Frequency spectrum and frequency reuse. 10
 - (b) Channel assignment strategies and handoff strategies. 10
- Discuss the fundamental concepts and importance of antenna in wireless communication. Also discuss various types of antenna. 20
- Present and explain the general system architecture of a cellular network. Also describe the functioning of individual elements and overall system.

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- What do you understand by channel interference in cellular mobile systems ? Discuss co-channel and non co-channel interferences. Also, describe ways to reduce co-channel interference. 20
- Describe WAP model, its architecture and its working. Also describe WAP gateway and WAP protocol stack.
- 8. Write detailed notes on the following :

(a)	GPRS	mobile	data	network.		10

(b) GSM telephone system.

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