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Total No. of Printed Pages: 1

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**M. Sc. IT (Semester – 2<sup>nd</sup>)**  
**MOBILE COMPUTING**  
**Subject Code: MITE-1259**  
**Paper ID: 220417**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(4 marks each)**

- Q1. (a) What is the concept of Mobile communication?  
(b) Compare GPRS and GSM.
- Q2. Discuss the concept tunnelling and Encapsulation.
- Q3. (a) What is the use of snooping?  
(b) Explain briefly caching technique.
- Q4. What is the role of mobile Agents? Illustrate their use.

**Section – B**

**(8 marks each)**

- Q5. Discuss the different types of applications where mobile computing is employed.
- Q6. (a) Explain the role of MAC protocols.  
(b) Explain applications of Route optimization.
- Q7. Explain the process of data recovery and issues related to QoS
- Q8. Illustrate the use of following techniques:  
a) WAP  
b) PalmOS

**Section – C**

**(10 marks each)**

- Q9. Explain the different types of GSM services and GSM system architecture.
- Q10. (a) Discuss different protocols of Transport Layer.  
(b) What is DHCP? Explain.
- Q11. Explain the following:  
a) IPV4  
b) Different platforms for Mobile Computing