

B.Tech. (Computer Science & Engineering / Information Technology) Seventh Semester (C.B.C.S.)  
**Program Elective-V : Mobile Computing**

P. Pages : 2

Time : Three Hours



**PSM/KW/23/2883/2905**

Max. Marks : 70

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Due credit will be given to neatness and adequate dimensions.
  8. Assume suitable data whenever necessary.

1. a) What is the need of wireless communication? State and explain various applications of wireless communication. **7**

b) Draw a simplified reference model for wireless communication and explain its working. **7**

**OR**

2. a) What are Antennas? State and explain different types of antennas. **7**

b) What are the benefits/ advantages of wireless network over wired network. **7**

3. What do you mean by GSM? Explain GSM Architecture in detail. **14**

**OR**

4. Explain the following terms: **any three**. **14**

a) Echo canceller.

b) Protocols (GSM).

c) Handover.

d) Cell layout & frequency planning.

e) AuC & EIR.

5. a) What is the need of specialized MAC in wireless communication? **7**

b) Explain architecture of Bluetooth. **7**

**OR**

6. a) Explain in detail about IEEE 802.11 standards. **7**

b) Explain the working of mobile IP in detail. **7**

7. a) Differentiate between MANET and Wired Network in routing. 7
- b) Describe DHCP. Explain working of DHCP for mobile IP. 7

**OR**

8. a) Explain IP packet delivery in mobile IP. 7
- b) Explain AODV in detail. 7
9. a) Explain components and interface of the WAP architecture. 7
- b) Explain traditional TCP & snooping TCP in detail. 7

**OR**

10. a) Explain the working of wireless transaction protocol in WAP. 7
- b) Write a short note on Wireless data-gram protocol. 7

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