B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)
Elective - II : Mobile Computing

P. Pages : 2

Time : Three Hours

Max. Marks : 80

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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.   Solve Question 11 OR Questions No. 12.
8.   Due credit will be given to neatness and adequate dimensions.
9.   Assume suitable data whenever necessary.
10.   Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain the simplified reference model of wireless system. **6**

b) Differentiate between WLAN, WMAN, WPAN. **3**

c) What are different types of antennas **5**

OR

2. a) Explain second generation 2G services system. **7**

b) What is Wireless communication and explain its applications. **7**

3. a) Explain in details cellular system in wireless communication. **6**

b) What is hidden technical problem. Describe in details with example. **7**

OR

4. a) Compare SDMA, FDMA, TDMA, CDMA. **6**

b) Explain the function of Medium access control. **7**

5. a) Explain the GSM operational and technical requirements **6**

b) How does base station system is useful in wireless communication. **7**

OR

6. Write short notes on: - **13**

i) HLR (Home Locations Register)

ii) VLR (Visiting Locations Register)

iii) Equipment Identity Register (EIR)

7.	a)	What is Mobile IP? How mobile IP is useful in mobile communication.	**6**
	b)	Describe DHCP. Explain working of DHCP for mobile IP.	**7**

OR

8.	a)	What is snooping? Explain with the help of example.	**6**
	b)	Write short note on Fast retransmission / Fast Recovery in MANET.	**7**
9.	a)	Differentiate between MANET and Wired Network in routing.	**6**
	b)	How spectrum was utilize in MANET applications. Describe spectrum sensing techniques.	**8**

OR

10.	a)	Describe properties of MANET in details.	**6**
	b)	Explain the any one routing algorithm in MANET.	**8**
11.	a)	Describe WAP 1.0 architecture in details.	**6**
	b)	Write short notes on Bluetooth, protocol stack.	**7**

OR

12.	a)	Write short notes on: -	**13**
		i) Link Management	
		ii) J2ME	
		iii) Wireless LAN.	

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