B.E. Seventh Semester (Computer Science & Engineering) (C.B.S.)

Elective - II : Mobile Computing

P. Pages : 2 **NKT/KS/17/7494**

Time : Three Hours * 0 1 2 0 * Max. Marks : 80

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.
9. Assume suitable data whenever necessary.
10. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) What is second generation system ? State the different services provided by 2G system. **6**

b) Give the different areas/senarios where wireless communication is applicable. **7**

OR

2. a) Give the detail of reference model for wireless communication with its diagrams & explain it. **6**

b) What do you mean by term Antennas ? Explain its types in detail. **7**

3. a) Explain near & far terminal effects & discuss the scenario with suitable diagrams. **6**

b) Explain hidden & expose terminal in detail by comparing their diagrams. **7**

4. Explain in detail SDMA, FDMA, TDMA & CDMA. Also provide their dependencies. **13**

5. a) Explain GSM. Architecture in detail by describing RSS, NSS & OSS. **14**

OR

6. a) Explain localization & calling. **6**

b) Describe Handover with diagram. **3**

c) What is echo canceller ? Explain its types. **5**

7. a) What is tunneling ? Explain the scenario for mobile IP with its terminologies. **7**

b) Explain & state requirement of DHCP with its diagram. **7**

OR

8. a) Explain traditional TCP & snooping TCP in detail. **7**

	b)	Explain & differentiate between selective re-transmission & transaction oriented TCP.	**7**
9.	a)	Explain mobile Adhoc networks & Routing in MANET.	**4**
	b)	Explain any one of routing protocol in MANET.	**9**

OR

10.	a)	Explain security in MANET.	**6**
	b)	What are the different scenarios where MANET can be applied.	**7**
11.	a)	Explain WAP and its layered architecture in detail.	**13**
12.	a)	Explain layered structure of Bluetooth tech.	**9**
	b)	Explain wireless LAN.	**4**

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