NagpurStudents

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"IT'S HARD TO BEAT A PERSON WHO NEVER GIVES UP.

Babe Ruth, American professional baseball player

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

P. Pages : 2

Time : Three Hours

1916

NIR/KW/18/3578

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.

1. a) What are the various applications of mobile communication. **7**

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

OR

2. a) What are the benefits? Advantages of wireless network over wired network. **6**

b) What do you mean by term antennas? Explain in detail, different types of antennas and their uses. **8**

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

b) What is the problem of hidden & exposed terminals? Explain in detail. **7**

OR

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

b) What are the advantages & disadvantages of cellular system having small cell. **7**

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

OR

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

a) Echo Canceller.

b) Protocols (GSM).

c) Handover in GSM.

d) Cell layout and frequency planning.

e) AGC & EIR.

7.	a)	Explain the state diagram for Dynamic Host configuration Protocol.	7
	b)	What is mobile IP? How mobile IP is useful in mobile communication.	6

OR

8.	a)	Explain traditional TCP in detail.	6
	b)	Explain selective re-transmission and transaction oriented TCP.	7
9.	a)	What do you mean by mobile Adhoc networks? Explain its application in detail.	7
	b)	Explain any one of routing protocol in MANET.	6

OR

10.	a)	Explain Dynamic Source Routing (DSR) Protocol.	6
	b)	Explain security in MANET (Warm hole attack).	7
11.	a)	Explain the WAP 1.X architecture.	7
	b)	Explain the working of wireless transaction protocol in WAP.	6

OR

12.	a)	Explain the concept of Bluetooth protocol stack with suitable diagram.	8
	b)	Explain in detail wireless LAN.	5

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High expectations are the key to everything.

~ Sam Walton

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