

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
& INFORMATION TECHNOLOGY
SESSION 2014-2015 (EVEN SEMESTER)

Total Pages—3

(Set-1)

B.Tech - 8th
Mobile Computing

Full Marks : 70

Time : 3 hours

Answer any six questions including Q. No. 1
which is compulsory

The figures in the right-hand margin indicate marks

1. Answer *all* the following questions : 2×10
- (a) What is cell breathing ?
 - (b) What is hidden terminal problem ?
 - (c) List any four functions of BSC used in GSM.
 - (d) Explain two advantages of cellular IP.
 - (e) List two advantages of mobile TCP.
 - (f) Explain any two classes of transaction services offered by WTP.

(Turn Over)

(2)

- (g) What is frequency hopping?
- (h) List four tele services used in GSM.
- (i) What is multipath propagation?
- (j) What is hand over?
2. (a) Discuss the PHY frame format of an IEEE 802.11 using the spread spectrum technique. 5
- (b) What are the general problems of mobile IP? 5
3. (a) What is WAP? What influenced the WAP development? 5
- (b) Explain WAP protocol suite. 5
4. (a) Define adhoc networks. Discuss properties and challenges of adhoc networks. 5
- (b) Discuss role of mobile agent in mobile computing. 5
5. (a) Explain features of TCP. What is TCP header? 5

(3)

- (b) Name any three protocols used in wireless communication. 5
6. (a) What is MANET? What are the advantages? 5
- (b) Define GPRS. Explain the architecture. 5
7. (a) Discuss blue tooth technology. Explain its architecture. 5
- (b) Compare blue tooth technology with Wi Fi and WiMAX Technology. 5
8. Write short notes on any two : 5 + 5
- (i) Server side programming
- (ii) JAVA programming
- (iii) WLL (Wireless in Local Loop).