B.E. (Information Technology) Seventh Semester (C.B.S.)
Elective - I : Mobile Computing

P. Pages : 2

Time : Three Hours

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* 0 4 7 8 *

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.

1. a) Explain cellular communication with its generation? **7**

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

OR

2. a) Draw and explain GSM architecture in detail with proper block diagram? **8**

b) Explain handover. Explain the different types of handover in GSM? **6**

3. a) What are the different tiers in three tier architecture? Describe the functions of these tiers? **7**

b) Describe the significance of core, edge and access network? What are their functions? **6**

OR

4. a) Draw and explain the content architecture with respect to mobile computing? **6**

b) What is Content adaption and transcoding? Classify different types of transcoding? **7**

5. Write a short note on **any two.** **14**

i) Protocol architecture.

ii) MAC management.

iii) System Architecture.

OR

6. a) Write the difference between wireless LAN and WLANs Consider mode of operation and frequencies? **7**

b) Specify and explain IEEE 802.11 standards? **7**

7. a) Write a short note on mobile agents and its characteristics? **7**

b) Explain remote procedure call? **6**

<div align="center">**OR**</div>

8. a) What are the requirements for implementing mobile Agent system? **7**

b) How a agent migration is does occur between two computers explain? **6**

9. a) Write a note on wireless datagram protocol? **7**

b) Explain compounds and interface of the WAP 1.X architecture? **6**

<div align="center">**OR**</div>

10. a) What is the WAP gateway? How is push different from pull? **7**

b) Explain in brief wireless markup language. Also list features of WML? **6**

11. a) What are the features of android & explain android components in detail? **7**

b) How is mapping application to process done in android? **6**

<div align="center">**OR**</div>

12. Write short note on **any three.** **13**

i) Hard ware tools.

ii) State of service in android.

iii) Android development basics.

iv) Android activity with Eg.

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