

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

P. Pages : 2

Time : Three Hours



AHK/KW/19/2349

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 and adequate dimensions.

1. a) Explain the working of simplified reference model for wireless communication with neat diagram. 7

b) Discuss the need of handover in GSM and elaborate possible handover scenario. 7

OR

2. a) Write a note on localization & calling in GSM. 7

b) Explain GSM architecture in detail. 7

3. a) Describe the significance of core, edge and access network. What are their functions. 6

b) Explain in detail tier architecture of mobile computing. 7

OR

4. Write and explain any four design issues of mobile computing. 13

5. Write detailed note on following **any two**. 13

i) Protocol architecture.

ii) IEEE 802.11 standards.

iii) Specialized MAC in wireless communication.

OR

6. a) Differentiate between wireless LAN and WLANs considering mode of operation and frequencies. 6

b) Draw and explain system architecture for wireless LAN. 7

7. a) Describe the Aglet object model. 7

b) Explain the architecture of Agent TCL. 6

OR

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| 8. | a) | Explain Remote Procedure Call (RPC) in detail. | 7 |
| | b) | How a agent migration does occur between two computers? Explain. | 6 |
| 9. | a) | Explain in brief wireless markup language. Also list features of WML. | 7 |
| | b) | Enlist and briefly explain various wireless transaction protocol. | 6 |

OR

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| 10. | a) | What is the WAP gateway? How is PUSH different from PULL? | 7 |
| | b) | Explain the concept of any two . i) Wireless datagram protocol. ii) Bluetooth protocol stack. iii) Wireless transaction protocol. | 6 |
| 11. | a) | Explain Android Architecture with diagram. | 7 |
| | b) | Discuss various hardware tools used in Android. | 7 |

OR

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| 12. | a) | Explain Android SDK features. | 7 |
| | b) | How mapping application to process is done in Android. | 7 |
