

Total No. of Printed Pages:2

**SUBJECT CODE NO:- H-149**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**B.E. (CSE/IT)**  
**Mobile Computing (CSE/IT)**  
**(REVISED)**

[Time: Three Hours]

[Max.Marks: 80]

Please check whether you have got the right question paper.

- N.B
- 1) Q.No.1 from section A and Q.No.6 from section B are compulsory.
  - 2) Attempt any two questions from the remaining questions of each section
  - 3) Assume Suitable data wherever necessary.

## Section- A

- |     |   |          |
|-----|---|----------|
| Q.1 | Solve any two.  | 10       |
|     | <ol style="list-style-type: none"> <li>a) Explain TDMA.</li> <li>b) Explain inter BS handoff.</li> <li>c) Explain mobile computing fundamental challenges.</li> </ol> |          |
| Q.2 | <ol style="list-style-type: none"> <li>a) Explain in detail architecture of GSM network.</li> <li>b) Explain signal propagation in details.</li> </ol>                | 08<br>07 |
| Q.3 | <ol style="list-style-type: none"> <li>a) Explain slotted ALOHA</li> <li>b) Explain hidden and exposed, near and far terminals.</li> </ol>                            | 07<br>08 |
| Q.4 | <ol style="list-style-type: none"> <li>a) Explain in detail 4G</li> <li>b) Explain frequency hopping spread spectrum.</li> </ol>                                      | 07<br>08 |
| Q.5 | <ol style="list-style-type: none"> <li>a) Explain hard and soft handover.</li> <li>b) Explain GPRS.</li> </ol>  | 07<br>08 |

## Section-B

- |     |   |    |
|-----|---|----|
| Q.6 | Solve any two.  | 10 |
|     | <ol style="list-style-type: none"> <li>a) Explain IP snooping.</li> <li>b) Explain XML.</li> <li>c) Explain agent advertisement message.</li> </ol> |    |

- Q.7 a) Explain IP tunneling. 08  
b) Explain CDPD architecture in detail. 07
  
- Q.8 a) Explain phone.com extensions. 08  
b) Explain function of lang library in WML script. 07
  
- Q.9 a) Write a program to receive end user input in WML. 07  
b) Explain events in WML script with example. 08
  
- Q.10 a) Explain header of IPv6 . 08  
b) Explain mobile IP package delivery in detail. To and from mobile node. 07