

M.E. Second Semester (Electronics & Tele.) (Full Time) (C.G.S.- New)  
**13345 : Elective-II : Mobile Computing : 2 ENTC 5**

P. Pages : 2

Time :



**AU - 3469**

Max. Marks : 80

- Notes :
1. Answer **three** question from section A and **three** question from section B.
  2. Due credit will be given to neatness and adequate dimensions.
  3. Illustrate your answer necessary with the help of neat sketches.

**SECTION - A**

1. a) Discuss the air parameters in GSM system. 6
- b) Describe the functions of HLR and VLR in call routing and roaming. 8

**OR**

2. a) Discuss the air standards of WCDMA. 7
- b) Explain any one modulation and multiplexing technique used in 4G network. 7
3. a) Explain adjacent channel interference in detail. 7
- b) Differentiate in detail between the FCA and DCA systems. 7

**OR**

4. Explain in detail what is co-channel interference. Hence determine the signal to interference ratio in - 14
  - i) Exact case equation
  - ii) Worst Case equation
5. a) Discuss in brief the location management in PCN. 8
- b) Explain the Columbia proposal for location management. 5

**OR**

6. a) Explain the location management for PCS network system. 8
- b) Explain the issues related to traffic calculations in mobility management. 5

**SECTION - B**

7. a) Discuss in detail the RM-2 Protocol. 7
- b) Discuss the RMDP protocol in brief. 7

**OR**

**AU - 3469**

1

P.T.O

- |    |    |                                                        |   |
|----|----|--------------------------------------------------------|---|
| 8. | a) | Discuss the evolution of mobile IP.                    | 7 |
|    | b) | Explain in detail the TCP data control flow.           | 7 |
| 9. | a) | Explain the mobile middleware and object architecture. | 6 |
|    | b) | Discuss in detail the RPCU in detail.                  | 7 |

**OR**

- |     |    |                                                     |   |
|-----|----|-----------------------------------------------------|---|
| 10. | a) | Explain in detail the remote execution mobile unit. | 6 |
|     | b) | Explain the cache strategies for wireless networks. | 7 |
| 11. | a) | Explain the IP security in detail.                  | 7 |
|     | b) | Differentiate between mobile virus and mobile worm. | 6 |

**OR**

- |     |    |                                                                      |   |
|-----|----|----------------------------------------------------------------------|---|
| 12. | a) | Explain the AAA protocols in detail.                                 | 6 |
|     | b) | Explain the various security issues of mobile and wireless networks. | 7 |

\*\*\*\*\*