



- 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. Assume suitable data wherever necessary.
  4. Illustrate your answer necessary with the help of neat sketches.

**SECTION - A**

1. a) Discuss in detail the air standards of 3G system. 6
- b) Discuss the types of WLANs in detail. 7

**OR**

2. a) Draw and explain the CDMA mobile system architecture. 6
- b) Draw and explain the GSM logical channel. 7
3. a) Explain the fixed channel Allocation system. Discuss its advantages. 7
- b) Differentiate in detail between FCA and DCA system. 6

**OR**

4. a) Explain the co-channel interference in detail. 6
- b) Explain the hybrid channel allocation? Explain its advantages. 7
5. a) What is the difference between the point to point, multicast and broadcast protocols. 7
- b) Discuss location management in CDDD. 7

**OR**

6. a) Explain Columbia proposal for location management. 7
- b) Discuss in brief the location management in PCN. 7

**SECTION - B**

7. a) Discuss the evolution of mobile IP. 6
- b) Explain the I-TCP snooping protocol. 7

**OR**

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|----|----|---|---|
| 8. | a) | Explain the wireless TCP protocol in detail.        | 6 |
|    | b) | Discuss the RM-2 Protocol in detail.                | 7 |
| 9. | a) | Discuss the RPCU in detail.                         | 7 |
|    | b) | Explain in detail the remote execution mobile unit. | 7 |

**OR**

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|-----|----|---|---|
| 10. | a) | Explain the mobile middleware and object architecture.                        | 7 |
|     | b) | What are the different application environment available in operating system. | 7 |
| 11. | a) | Explain the AAA Protocols in detail.  | 6 |
|     | b) | Differentiate between the mobile virus and mobile worm.                       | 7 |

**OR**

- |     |    |  |   |
|-----|----|--|---|
| 12. | a) | Explain the security model with the help of following points.<br>i) Infrastructure related security<br>ii) System level security<br>iii) Policy based security | 7 |
|     | b) | Explain the issues of electronic commerce in mobile security.  | 6 |

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