|     |      | Duration: 3hrs [Max Marks:80]   |      |
|-----|------|---|------|
| N.E | 3. : | <ol> <li>Question No 1 is Compulsory.</li> <li>Attempt any three questions out of the remaining five.</li> <li>All questions carry equal marks.</li> <li>Assume suitable data, if required and state it clearly.</li> </ol> |      |
| 1   |      | Attempt any FOUR  | [20] |
|     | a    | Explain concept of frequency reuse with clustering.   | 5    |
|     | b    | Explain in short wireless LAN security threats.   | 5    |
|     | c    | What is spread spectrum?  | 5    |
|     | d    | Describe use of Cellular IP.  | 5    |
|     | e    | Explain in short voice over LTE.  | 5    |
| 2   | a    | Explain in short different algorithm used for authentication and privacy in GSM.  | [10] |
|     | b    | What is the use of different interfaces used in global system for mobile communication (GSM) with diagram?  | [10] |
| 3   | a    | Explain hidden station and exposed station problem with solution in WLAN.   | [10] |
|     | b    | How is packet delivery achieved to and from mobile node?  | [10] |
| 4   | a    | Explain snooping TCP and mobile TCP with their merits and demerits.   | [10] |
|     | b    | Explain the process of registration in Mobile IP.   | [10] |
| 5   | a    | Explain protocol architecture of IEEE 802.11 with diagram.  | [10] |
|     | b    | How IP mobility is achieved in wireless network.  | [10] |
| 6   | a    | Explain different components used in LTE architecture with diagram.   | [10] |
|     | b    | Which components are new in GPRS as compared to GSM? What is there purpose?   | [10] |

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