

(3 hours)

[Total Marks: 80]

- 1) Question No.1 is **compulsory**.
- 2) Attempt any **three** questions out of the remaining questions.
- 3) Make suitable assumptions wherever necessary.

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| Q1 A | What is GPRS ? Describe its architecture in detail                                   | 10 |
| B    | What are various issues in signal propagation ?                                      | 10 |
| Q2 A | Describe GSM in detail.  | 10 |
| B    | Explain GEO and LEO satellite systems.   | 10 |
| Q3 A | What is goal of Mobile IP ? How is packet delivery achieved to and from mobile node? | 10 |
| B    | Discuss various types of Handoffs in cellular networks.                              | 10 |
| Q4 A | Explain HIPERLAN 2 data link control layer.  | 10 |
| B    | What are android SDK features  | 10 |
| Q5 A | Describe Bluetooth protocol stack.   | 10 |
| B    | What are security issues in mobile computing?  | 10 |
| Q6   | Write short notes on any 02.   | 20 |
|      | a) Antennae.   |    |
|      | b) Authentication and privacy in GSM.  |    |
|      | c) TETRA   |    |
|      | d) 4G architecture. Comparison of 3G and 4G networks                                 |    |

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