

(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 | |
