



ELECTIVE - II
Mobile Network
(New) (1282)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** questions from each unit.
5. Figures to the right indicate full marks.
6. Assume suitable data if necessary.

UNIT - I

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| 1. | List all the channel assignment schemes. What are the goals of channel assignment schemes. Explain reserved channel scheme in detail. | 10 |
| 2. | What is roaming ? Explain registration process for roaming management under SS7. | 10 |
| 3. | Draw and explain PCS architecture in detail. | 10 |

UNIT - II

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| 4. | Explain GSM security in detail. | 10 |
| 5. | Explain GSM MAP protocol machine in detail. | 10 |
| 6. | Discuss VLR identification algorithm. | 10 |

UNIT - III

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| 7. | Draw and explain SMS protocol hierarchy in detail. | 10 |
| 8. | Draw and explain GSM international call setup procedure in detail. | 10 |
| 9. | Explain fixed network number portability mechanism in detail. | 10 |

UNIT - IV

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| 10. | Draw and explain iGSM registration message flow. | 10 |
| 11. | Draw and explain GPRS attach and detach procedure. | 10 |
| 12. | Draw and explain GPRS architecture in detail. | 10 |

UNIT - V

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| 13. | Explain WAP protocol stack in detail. | 10 |
| 14. | Explain wireless operating system for 3G hand set. | 10 |
| 15 | Draw and explain wireless local loop architecture. | 10 |
