

Seat  
No.

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DII1352

**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. Answersheet 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** sub - questions from each unit.
5. Assume suitable data wherever necessary.
6. Diagrams should be given wherever necessary.
7. Figures to the right indicate full marks.

**UNIT - I**

1. a) Explain registration and call delivery through SS7. 10
- b) Explain different channel assignment schemes. 10
- c) Explain handoff detection strategies for PCS networks. 10

**UNIT - II**

2. a) Draw and explain unstructured supplementary service data. 10
- b) Draw and explain MAP dialogue. 10
- c) Discuss VLR identification algorithm. 10

**UNIT - III**

3. a) Explain GSM SMS protocol stack. 10
- b) Explain GSM International call setup procedure. And also explain tromboning. 10
- c) Explain the functions of GSM OA & M in detail. 10

**UNIT - IV**

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|----|----|---|----|
| 4. | a) | Explain Call delivery to the IP network in i GSM. | 10 |
|    | b) | Explain GPRS support node.                        | 10 |
|    | c) | Explain GPRS attach and detach procedures.        | 10 |

**UNIT - V**

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|----|----|---|----|
| 5. | a) | Discuss wireless operating system for 3G handset. | 10 |
|    | b) | Explain wireless Local Loop architecture.         | 10 |
|    | c) | Explain WAP model and its protocols.              | 10 |

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