

Seat  
No.

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मुख - 002

**ELECTIVE- I**

**Advanced Telecom Network Management  
(1052)**

**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 five** questions.

1. a) How Mobile Radio system works & Explain the significance of Data Communication in Mobile Radio system. 10  
b) Compare Between Analog & Digital Microwave Radios. 10
2. a) Explain "Integrated Digital Networks". 10  
b) Explain Cellular Radio Network in detail. 10
3. a) During Busy Hour 1200 calls were offered to a group of trunks & 6 calls were lost. The average call duration was 3 minutes find 10
  - i) The traffic offered
  - ii) The traffic carried
  - iii) The traffic Lost
  - iv) GOS
  - v) The duration of percentage Congestion.
- b) Explain Queuing system in detail. 10
4. a) Explain Data Encryption Standard in detail. 10  
b) Explain different transformation used by AES to provide the security. 10

5. a) Explain public key algorithm "RSA" in detail. 10  
b) Explain Elliptic Curve Arithmetic. 10
6. a) Explain How to improve the security of MAC's. 10  
b) Compare MDC & MAC. 10
7. a) What are the different digital signature schemes ? Explain any one in detail. 10  
b) Explain MD5 Hash function with suitable example. 10
8. Write a short notes on : 20
- 1) Intelligent Network.
  - 2) Contemporary symmetric ciphers
  - 3) Digest Algorithm
  - 4) B-ISDN.

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