

3 hrs.



80 marks

NB:

1. Question 1 is compulsory
2. Attempt any 3 questions out of the remaining questions.
3. Assume suitable data whenever required

- Q1) Any 4
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|----|-------------------------------------------------------------------|---|
| a) | Explain the Network and Switching Sub-System of GSM architecture. | 5 |
| b) | Write short notes on GEO, MEO & LEO | 5 |
| c) | Enlist the characteristics of SIM. | 5 |
| d) | Describe Inter MSC handover technique. | 5 |
- Q 2) a) Explain the 4G LTE architecture with a neat diagram. 10
- b) Compare and contrast HIPERLANI and HIPERLAN 2. 10
- Q 3) a) What is the disconnection problem? Explain reaction of M-TCP along with its advantages and disadvantages 10
- b) GSM maintains end-to-end security by retaining the confidentiality of calls and anonymity of the GSM subscriber, Justify this statement. 10
- Q4) a) Explain the role of digital signature in mobile security. 10
- b) Write a note on Android Framework. 10
- Q5) a) Draw and explain the architecture of TETRA and specify the standards and services offered by TETRA 10
- b) Explain the GPRS architecture in detail. Compare it with GSM architecture. 10
- Q6) Write short notes on the following : 20
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|----|----------------------------------------|--|
| a) | GSM Burst Structure | |
| b) | Agent Advertisement and Discovery | |
| c) | Exposed terminal problem with solution | |
| d) | Co-channel Interference. | |
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