

MAY - 19

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
- 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
- a) GSM Burst Structure
 - b) Agent Advertisement and Discovery
 - c) Exposed terminal problem with solution
 - d) Co-channel Interference.
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