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 10
   with its advantages and disadvantages
  b) GSM maintains end-to-end security by retaining the confidentiality of 10
   calls and anonymity of the GSM subscriber, Justify this statement.

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 10
   and services offered by TETRA
  b) Explain the GPRS architecture in detail. Compare it with GSM 10
   architecture.

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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