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10TE82

Eighth Semester B.E. Degree Examination, Dec.2017/Jan.2018

GSM

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART – A

- 1 a. Explain objectives of a PLMN services. (06 Marks)
b. Explain the 3 main groups of services provided by GSM/PLMN. (04 Marks)
c. Explain in detail GSM interfaces. (10 Marks)
- 2 a. Explain Dynamic power control in detail. (10 Marks)
b. Explain slow frequency Hopping for GSM with three different frequencies. (10 Marks)
- 3 a. Explain how mobility management performs in GSM. (10 Marks)
b. Explain the five different types of bursts used by GSM. (10 Marks)
- 4 a. Explain the functions involved in the speech codes. (10 Marks)
b. Explain A law and μ law. (06 Marks)
c. Explain the steps involved in the Vcoders. (04 Marks)

PART – B

- 5 a. Explain the primitives involved in the MS-BS interface. (04 Marks)
b. Define Handover. Explain intra MSC hand over. (08 Marks)
c. Explain the steps involved in the call set up procedure by mobile station. (08 Marks)
- 6 a. Explain the privacy of communications involved in the GSM. (10 Marks)
b. Explain the token based authentication in GSM (10 Marks)
- 7 a. Explain the spectral efficiency of wireless system. (10 Marks)
b. Explain receiver sensitivity and link budget. (10 Marks)
- 8 Write a short notes on :
a. OSI system management (05 Marks)
b. SNMP (05 Marks)
c. NMS functionality (05 Marks)
d. OMC functionality (05 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.