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Explain the objectives and services of a GSM PLMN.

Briefly explain the GSM Interfaces.

10EC843

(08 Marks)

(06 Marks)

Eighth Semester B.E. Degree Examination, June/July 2018 **GSM**

Time: 3 hrs.

1

Max. Marks:100

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

PART - A

	b. c.	Briefly explain the GSM Interfaces. Bring out the importance of IMSI and IMEI identities of an MS.	(06 Marks)			
2	a. b.	Explain the future techniques to reduce interference in GSM. Explain any two methods that are used to reduce interference in GSM system.				
3	a. b.	Explain the various bursts that are used in GSM, with a neat format. Give a brief note: i) Data Encryption in GSM ii) Mobile Identification.				
4	a. b. c.	Explain the different attributes of a GSM speech codec. With relevant figures, explain the working of GSM full rate vocoder. Write a short note on ITU – T standards.	(08 Marks) (08 Marks) (04 Marks)			
		PART – B				
5	a. b. c.	Explain with flow diagram for GSM call release. Explain Intra MSC handover in GSM, with relevant flow diagram, Briefly explain any one method of SMS, with relevant block diagram.	(08 Marks) (08 Marks) (04 Marks)			
6	a. b. c.	Explain the wireless security requirements in GSM. Explain the call flow for Token based registration. List and explain the Security Algorithms used in GSM.	(08 Marks) (06 Marks) (06 Marks)			
7	a. b. c.	Describe the factors to be satisfied while designing a wireless system. Write a short note on Spectral Efficiency with an equation of a wireless system. Explain the factors to be considered in selecting a modulation scheme.	(08 Marks) (06 Marks) (06 Marks)			
8	a. b. c.	Write a brief note on SNMP. Bring out the Management requirements for wireless networks. What are the five TMN layers? Explain the three pertinent layers.	(04 Marks) (08 Marks) (08 Marks)			