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Roll No.

328733(28)

B. E. (Seventh Semester) Examination, April-May 2020/NOV-DEC2020

(New Scheme)

(Et & T Engg. Branch)

WIRELESS COMMUNICATIONS

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all the questions. Part (a) is compulsory of each unit and carries 2 marks. Attempt any two from (b), (c) and carries 7 marks.

Unit-I

1. (a) Define wireless communication.

2

(b) Describe the features of 2 G, 3 G and 4 G system in detail.

7

5.

	[2]	
	(c) Discuss evolution of Mobile radio communication.	7
	(d) Describe paging system with block diagram.	7
	Unit-II	
2.	(a) Define the term frequency reuse.	2
	(b) Describe channel Assignment strategies in detail.	7
	(c) Describe micro cell zone concept with diagram.	7
	(d) Describe Handoff strategies with diagram.	7
	Unit-III.	
3.	(a) Give frequency bands of GSM.	2
	(b) Describe GSM Architecture in detail.	7
	(c) Describe GSM Channel in detail.	
	(d) Describe GSM security in GSM.	7
	Unit-III	
4.	(a) What is P-N sequence generator.	2
	(b) Describe MSK (minimum shift keying) Transmitter and receiver with diagram.	7

(d) What is spread spectrum. Describe DS-SS system?	7
Unit-V	
(a) Define the term scattering.	2
(b) Discuss signal propagation in wireless communication with diagram.	7
(c) What are the main problems of signal propagation?	7
(d) What is diversity and different types of diversity methods?	7

[3]

(c) Describe GMSK in detail.