Roll No.												

PRESIDENCY UNIVERSITY
BENGALURU

School of Engineering

Mid - Term Examinations - November2024

Semester: VII
Date: 06-11-2024
Course Code: ECE3056
Time: 11:45am – 01:15pm
Course Name: Wireless Communication and Network
Max Marks: 50
Program: BTech ECE
Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.
(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **5Qx2M =10M**

1	Write the difference between DSSS and FSSS.	**2 Marks**	**L2**	**CO1**
2	What is fading and write types of fading?	**2 Marks**	**L1**	**CO1**
3	What are the advantages of micro cell zone concept?	**2 Marks**	**L1**	**CO1**
4	What is call blocking and termination?	**2 Marks**	**L2**	**CO2**
5	What is co-channel interference?	**2 Marks**	**L1**	**CO2**

Part B

Answer ALL Questions. Each question carries 10 marks. **4QX10M=40M**

6	Explain in detail about GSM architecture with suitable diagram.	**10 Marks**	**L1**	**CO1**
	Or			
7	What are the different types of handover and explain that in detail?	**10 Marks**	**L2**	**CO1**

8		Explain frequency hopping spread spectrum with suitable example.	**10 Marks**	**L1**	**CO2**
		Or			
9		Explain FDMA and TDMA.	**10 Marks**	**L1**	**CO2**
10		Explain the cell structure and hexagonal cell geometry of cellular system	**10 Marks**	**L1**	**CO1**
		Or			
11		Explain the concept of frequency reuse in cellular system	**10 Marks**	**L1**	**CO1**
12	**a**	Explain the free space propagation model?	**5 Marks**	**L2**	**CO2**
		Free space model & equation			
	b	Path loss model explanation	**5 Marks**	**L2**	**CO2**
		Or			
13		Summarize about Trunking and Grade of Service in cellular system	**10 Marks**	**L2**	**CO2**