

Model Question Paper
ANURAG Engineering College
 (An Autonomous Institution)
 III B.Tech. II Semester Regular Examinations, June -2025
MOBILE COMMUNICATIONS AND NETWORKS
 (ECE)

Time: 3 Hours

Max.Marks:60

Section – A (Short Answer type questions)		(10 Marks)		
Answer All Questions		Course Outcome	B.T Level	Marks
1.	What is a cell?	CO1	L1	1M
2.	What is line of sight path?	CO1	L1	1M
3.	What is co-channel interference?	CO2	L1	1M
4.	What is non-co-channel interference?	CO2	L1	1M
5.	What are Human made structures?	CO3	L1	1M
6.	What are Natural terrains?	CO3	L1	1M
7.	What is Handoff?	CO4	L1	1M
8.	What is Forced Handoff?	CO4	L1	1M
9.	What is full form of GSM?	CO5	L1	1M
10.	What is TDMA?	CO5	L1	1M
Section - B (Essay Questions)				
Answer all questions, each question carries equal marks.		(5 X10M = 50M)		
11.	Explain about Basic cellular mobile system?	CO1	L2	10M
OR				
12.	Explain about concept of frequency reuse?	CO1	L2	10M
OR				
13.	Explain about Near-End-Far-End Interference?	CO2	L2	10M
OR				
14.	Explain about Omnidirectional Antenna system in the worst case?	CO2	L2	10M
OR				
15.	Derive the equation for Phase difference between a direct path and a ground-reflected path?	CO3	L3	10M
OR				
16.	Derivation for propagation between two fixed stations over water or flat open land?	CO3	L3	10M
OR				
17.	Explain two types of Handoff?	CO4	L2	10M
OR				
18.	Explain two Level Delaying Handoff?	CO4	L2	10M
OR				
19.	Explain about GSM architecture?	CO5	L2	10M
OR				
20.	Explain about CDMA ?	CO5	L2	10M