Roll No			
EC-602			
B.E. VI Semester			
Examination, June 2014 Cellular Mobile Communication			
Time: Three Hours rgpvonline.com Maximum Marks: 70			
Note: i) Attempt one question from each unit. ii) All questions carry equal marks.			
Unit - I			
 a) What is a cellular system? Explain with the help of a neat diagram. What is the cellular concept? Why hexagonal cells are used in cellular system? b) Explain the concept of frequency reuse in a cellular system. What is the necessity of frequency reuse? What is reuse factor? OR a) What is co-channel interference? What is the main 	www.rgpvonline.in		
reason for it? How can be co-channel interference be reduced? b) What is handoff mechanism in cellular mobile system? What is its necessity? What are different handoff types?			
Unit - II			
3. a) Explain foliage losses and propagation in near-in-distance.			
b) Explain point-to-point model with its equations. 7 OR	www.rgpvonline.in		

a)	Ex_{j}		pects and merits of an	7		
	omnidirectional antennas in cell site. 7 b) What is known as directional antennas? Explain directional					
antennas for interference in detail.						
	Unit - III					
1. What is umbrella-pattern effect? List the benefits of an						
		umbrella cellular patterr	1.	7		
	b)	What is diversity receive	er? Explain in detail.	7		
	OR					
2.	a)	Define SINAD and WE	R. Explain what are subjecti	ve test		
		and objective test?		7		
	b)			7		
		(i) Crosstalk	(ii) Beam Tilting			
		I∃nit	t - IV			
3.	a)		nel assignment? Explain dif	ferent		
٥.	u)		nel assignment algorithms.	7		
	b)	-	and borrowing in detail.	7		
	OR					
4.	a)	Enlist and explain diffe	erent types of handoffs in ce	ellular		
	,	systems.	· -	7		
	b)	Explain What is Mobile	e Assisted' Handoff (MAH	0)? 7		
Unit - V						
9.	a)	Draw and explain the		7		
,	,	•		7		
	b) Enlist and explain different GSM channels. 7 OR					
10. Write short notes on (any two):						
_ 0		CDMA	b) PDC			
	,	PCN	d) PCS			