Roll No	a) Explain the design aspects and merits of an omnidirectional antennas in cell site.
EC-602	b) What is known as directional antennas? Explain directional antennas for interference in detail.
B.E. VI Semester Examination, June 2014	Unit - III 1. a) What is umbrella-pattern effect? List the benefits of an
Cellular Mobile Communication	1. a) What is umbrella-pattern effect? List the benefits of an umbrella cellular pattern.
Time: Three Hours rgpvonline.com Maximum Marks: 70	b) What is diversity receiver? Explain in detail. OR
Note: i) Attempt one question from each unit. ii) All questions carry equal marks. Unit - I	 2. a) Define SINAD and WER. Explain what are subjective test and objective test? b) Write short notes on (i) Crosstalk (ii) Beam Tilting
 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? 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 reason for it? How can be co-channel interference be 	 Unit - IV 3. a) What is non-fixed channel assignment? Explain different types of non-fixed channel assignment algorithms. b) Explain channel sharing and borrowing in detail. OR 4. a) Enlist and explain different types of handoffs in cellular systems. b) Explain What is Mobile Assisted' Handoff (MAHO)? 7
reduced? b) What is handoff mechanism in cellular mobile system? What is its necessity? What are different handoff types?	Unit - V 9. a) Draw and explain the architecture of GSM. b) Enlist and explain different GSM channels. OR
Unit - II 3. a) Explain foliage losses and propagation in near-in-distance. 7 b) Explain point-to-point model with its equations. 7	10. Write short notes on (any two): a) CDMA b) PDC c) PCN d) PCS
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