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Code No: 118FG JAWARARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2017 WIRELESS COMMUNICATIONS AND NETWORKS (Electronics and Communication Engineering) Time: 3 hours Max. Marks: 75 **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART - A (25 Marks) 1.a) What are prioritizing handoffs? [2] Explain about Sectoring. b) [3] c) Discuss about Hata model. Write about Site specific modeling. d) Discuss about level crossing. e) [2] f) Write a short notes on Doppler spread [3] g) Explain about frequency diversity. [2] Discuss about Zero forcing algorithm. h) [3] Write about WLLA i) List the disadvantages of WLAN PART - B (50 Marks) 2. Explain in detail about Trunking and Grade of Service. [10] 3.a) Discuss briefly about frequency reuse. b) Write short notes on channel assignment strategies 4a) Discuss about Brewster angle. b) Explain about Longley- Ryce model [3+7]5. Explain in detail about Ground Reflection Model [10] Discuss in detail about the factors that influence small scale fading [10] OR. Ż. Discuss about fast fading and slow fading. [10] 8. Explain in detail about Decision Feedback Equalization. [10] 9. Derive the expression for Maximal Ratio Combining Improvement [10] 10. Discuss in detail about WLAN Topologies: [10]11. Write short notes on: a) Wireless PANS b) Hiper LAN [5+5]