[5+5]

Max. Marks: 75

## Code No: 118FG

Time: 3 hours

a) Wireless PANSb) Hiper LAN

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2017 WIRELESS COMMUNICATIONS AND NETWORKS

(Electronics and Communication Engineering)

**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)** What are prioritizing handoffs? 1.a) [2] Explain about Sectoring. **b**) [3] Discuss about Hata model. [2] c) Write about Site specific modeling. d) [3] Discuss about level crossing . [2] e) Write a short notes on Doppler spread f) [3] Explain about frequency diversity. [2] g) Discuss about Zero forcing algorithm. [3] h) Write about WLL. i) [2] List the disadvantages of WLAN. j) [3] PART - B **(50 Marks)** 2. Explain in detail about Trunking and Grade of Service. [10] OR 3.a) Discuss briefly about frequency reuse. Write short notes on channel assignment strategies. b) [5+5]Discuss about Brewster angle. 4a) Explain about Longley- Ryce model b) [3+7]5. Explain in detail about Ground Reflection Model [10] 6. Discuss in detail about the factors that influence small scale fading. [10] 7. 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] Discuss in detail about WLAN Topologies. 10. [10] OR 11. Write short notes on: