

Code No: 5455AT

R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II Semester Examinations, June/July - 2018
WIRELESS COMMUNICATIONS AND NETWORKS
(Embedded Systems)

Time: 3hrs

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

5 × 5 Marks = 25

- 1.a) What is mean by cell splitting? Elaborate. [5]
- b) Discuss about radio wave propagation. [5]
- c) Discuss small scale multipath measurements. [5]
- d) Explain how to train a generic- adaptive equalizer. [5]
- e) Discuss the advantages of wireless local area networks. [5]

PART - B

5 × 10 Marks = 50

2. Explain different handoff strategies and prioritizing handoff. [10]
OR
3. Discuss the basic principles of trunking and grade of service. [10]
4. Explain multiple knife-edge diffraction. [10]
OR
5. Discuss briefly about indoor propagation model. [10]
6. Explain two ray Rayleigh fading model. [10]
OR
7. Discuss the fading effects encountered due to multipath time delay spread. [10]
8. Explain MLSE equalizer with neat block diagram. [10]
OR
9. Discuss space diversity techniques in detail. [10]
10. Describe the principles and features of WLL. [10]
OR
11. Discuss about wireless PAN in detail. [10]