

B.Tech.7th Semester (F) Scheme (ECE) Examination,

December-2018

WIRELESS COMMUNICATION

Paper-ECE-405-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Question no. 1 is compulsory. Attempt any one question from each section.

1. (i) What is PAN ? Discuss. 5
- (ii) What is frequency reuse in wireless communication ? 5
- (iii) What are the differences between hard handoff and soft handoff ? 5
- (iv) What are the applications of intelligent microcell system ? 5

Section-A

2. (a) Describe the differences between second generation and third generation. 10
- (b) Discuss the evolution of mobile radio communication system. 10
3. (a) Discuss the differences between paging system and cordless system. 10
- (b) Explain WLAN and wireless local loop. 10

Section-B

4. (a) Explain the performance criteria of cellular mobile system 10
- (b) What are channel assignment strategies? Make the difference between fixed and dynamic channel assignment strategies: 10
5. (a) How digital cellular system is advantageous over analog cellular system ? 10
- (b) Explain tracking and grade off service. 10

Section-C

6. (a) Describe capacity of cellular system in multiple access technique. 10
- {b) What is multiple access technique? Explain TDMA in detail. 10
7. (a) Discuss spread spectrum multiple access technique. 10
- (b) What do you understand by space division multiple access ? 10

Section-D

8. (a) Explain the differences between wireless and fixed telephone network. 10

- (b) Discuss fixed network transmission hierarchy. 10

9. Write short notes on : 20

- (a) ISDN
- (b) Advanced Intelligent network
- (c) In-building communication