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# B.Tech.(ECE) (2012 to 2017) (Sem.-6) WIRELESS COMMUNICATION SYSTEM

Subject Code: BTEC-602 M.Code: 71122

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTION TO CANDIDATES:**

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### **SECTION-A**

## 1) Answer briefly:

- a) What is the difference between Long term and Short term fading?
- b) What is real time Co-channel interference?
- c) What are the limitations of conventional mobile telephone system?
- d) What are the interfaces used in GSM?
- e) What is frequency reuse?
- f) Mention the various multiple access schemes used in wireless communication?
- g) What is base station?
- h) What is the function of control channel? What are the types?
- i) What is flat fading?
- j) What do you mean by forward and reverse channel?



## **SECTION-B**

- 2. What are the channel types of GSM system? Explain.
- 3. Explain the space diversity methods.
- 4. Explain the performance criteria and operation of cellular systems.
- 5. Write short note on LTE- Advance systems.
- 6. Explain Pure ALOHA and Slotted ALOHA in detail.

## **SECTION-C**

- 7. Differentiate the analog & digital cellular systems with their operating capacities.
- 8. Mention the two frequency reuse schemes and explain N-cell reuse pattern in detail for four & seven cell reuse with illustrative diagrams.
- 9. Discuss the salient features of FDMA and TDMA techniques.

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.

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