

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ECE) (Sem.-6)
WIRELESS COMMUNICATION SYSTEM
Subject Code : BTEC-602
M.Code : 71122
Date of Examination : 07-07-22

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) Define Doppler shift.
- b) Define cell splitting.
- c) Write full form of GSM.
- d) What are the advantages of RAKE receiver?
- e) What is signal to noise ratio?
- f) What is the need of multiple access techniques?
- g) What is IS-54 standard?
- h) Write about forward and reverse channel.
- i) Write full form of SIM.
- j) Briefly explain cordless telephone system.

SECTION-B

2. Interpret the structure of wireless communication link in detail.
3. Explain co-channel interference and adjacent interference. Describe the techniques to avoid interference.
4. Explain in detail about channel assignment strategies.
5. What is the impact of fading in wireless communication?
6. Explain CDMA in detail.

SECTION-C

7. Write a note on:
 - a) ZigBee
 - b) Bluetooth
 - c) LTE- Advance.
8. What is the need of diversity? Explain different types of diversity.
9. Write a note on GSM wireless networks and standards.

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.