Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (CE / CSE / EE / ECE / EEE / IT / SE) / BTech. (CE) (PIT)
(Sem.–6)
WIRELESS COMMUNICATION
Subject Code : BTEC-601-18
M.Code : 79373
Date of Examination : 20-07-22

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTIONS 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. **Write briefly :**

   a) What is LTE?

   b) Define cluster.

   c) Write full form of UMTS.

   d) What are the advantages of RAKE receiver?

   e) What is signal to noise ratio?

   f) What is frequency hopped multiple access?

   g) What is IS-136 standard?

   h) Write about forward and reverse channel.

   i) Write full form of VLR.

   j) Briefly explain ZigBee.

SECTION-B

2. Explain the various parameters involved in multipath propagation.

3. Explain in detail how to improve coverage and channel capacity.

4. Explain fourth generation in detail.

5. Explain why large scale fading and small scale fading occur in wireless channel.

6. What are ALOHA protocols? Explain in detail.

SECTION-C

7. Write a note on third generation wireless networks and standards.

8. Explain with diagram the different techniques available for signal combining.

9. Discuss the major differences between TDMA/FDMA and CDMA. Explain each in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.