S.B. Roll. No.....

WIRELESS AND MOBILE COMMUNICATION 6th Exam/ECE/5619/Jun'2021 (For 2018 Batch onwards)

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. How a geographical area is divided by different cell structures?
- ii. Draw and explain the frequency spectrum.
- iii. What are the advantages of wireless communication?
- iv. Explain the cellular concept.
- v. Why hexagonal shape of cells is preferred in cellular networks.
- vi. Explain the features of FDMA.
- vii. What are the different schemes of spread spectrum?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Draw and explain the architecture of UMTS and its features.
- b. Explain cellular network system in detail.
- c. Explain the following propagation considerations i) Fading ii) Frequency Reuse.
- d. What is GSM technology? Explain the GSM operation and architecture in detail.