PRINCIPAL OF COMMUNICATION ENGINEERING 3rd Exam/ECE/4461/Jan'2022 (FOR 2018 BATCH ONWARDS)

Duration: 1.15Hrs.

SECTION-A

M.Marks:25

3x5=15

Q1. Attempt any three questions.

- i. Explain the block diagram of communication system.
- ii. Explain the need of modulation.
- iii. Comparison between AM and FM in communication system.
- iv. A 600 w carrier is modulated to a depth of 60%. Calculate the total power in modulated wave.
- v. Explain the pre emphasis and De emphasis.
- vi. What is the basic concept of TDM?
- vii. Explain the block diagram of stabilization of carrier frequency using AFC.

SECTION-B

1x10=10

Q2. Attempt any one question.a. Derive the expression of an amplitude modulated wave.

- b. Explain the linear Diode Detector with RC time constant.
- c. Explain the working principle of balance modulator with the help of circuit diagram.
- d. Explain the principal of foster seeley discriminator with the help of a neat diagram.