

S.B. Roll No.....

PRINCIPLES OF COMMUNICATION ENGINEERING
3rd Exam/ECE/4461/Feb'2021
(For 2018 batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Explain the Basic Communication System.
- ii. What is the need for Modulation?
- iii. Give the working of a Square Law Modulator.
- iv. Explain Time Division Multiplexing & Frequency Division Multiplexing
- v. Describe the limitations of Delta Modulation.
- vi. List the advantages and disadvantages of PCM.
- vii. Explain PAM, PWM, PPM.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. What is Amplitude Modulation? Derive an expression for an Amplitude Modulated Wave.
- b. Give the Comparison of AM & FM.
- c. What is PCM? Explain its Detection & Generation.
- d. Discuss the working of a Balanced Modulator.