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# ELECTRONICS DEVICES AND CIRCUITS 3<sup>rd</sup> Exam/ECE/5861/Jan'2022 (FOR BATCH 2018 ONWARDS)

Duration: 1.15Hrs. M.Marks:25

### **SECTION-A**

## Q1. Attempt any three questions.

3x5=15

- i. What is need of multistage amplifier?
- ii. Explain the difference between a voltage and a power amplifier.
- iii. Explain Transformer coupled transistor Amplifier.
- iv. Comparison of different types of multistage amplifiers.
- v. Explain the principle of working of push pull amplifier.
- vi. Explain the working of a crystal oscillator.
- vii. Describe the working of class B amplifier.

#### **SECTION-B**

## Q2. Attempt any one question.

1x10=10

- a. What do you mean by Class A, Class B, and Class C amplifier?
- b. Differentiate between Monostable, Bistable and Astable Multivibrators.
- c. Explain the working of an RC coupled amplifier using a neat circuit diagram. Draw and explain its frequency response.
- d. Write short note on:
  - i. Barkhausen criteria
  - ii. Schmitt trigger circuit