

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

ELECTRONIC DEVICES & CIRCUITS
3rd Exam/ECE/5861/Jun'2021
(For 2018 Batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. What is a multistage amplifier? What is its need?
- ii. Differentiate between voltage and power amplifiers.
- iii. What are the effects of negative feedback on amplifiers?
- iv. What is Barkhausen criterion for oscillations?
- v. Explain with diagram the Colpitts Oscillator.
- vi. What is a Clipper and clamper circuit? Explain its types.
- vii. What is SMPS? Explain its working with diagram.
- viii. Explain the characteristics of operational amplifier.

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Explain with diagram the working of RC Coupled multistage amplifier.
- b. Explain the working principle of Complementary push pull amplifier.
- c. Explain with diagram, the working of Wein bridge oscillator.
- d. Explain the working of Monostable multivibrator.