

S.B. Roll No.....

ELEMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
3rd Exam/Mech./Auto/0193/Feb'2021
(For 2018 batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Difference between AC and DC?
- ii. Explain various applications of electricity?
- iii. Explain power factor improvement of power factor by use of capacitors?
- iv. Difference between high and low voltage distribution system?
- v. Description and application of single phase and three phase motors?
- vi. Distinction between light fan circuit and single phase power circuit?
- vii. Explain starting of three phase induction motors bt star delta starter?
- viii. Difference between three phase and single phase supply?

SECTION-B

Q2. Attempt any one question.

1x10=10

- a. Write short notes i) faraday's law ii) lenz's law 3) fleming's law 4) form factor 5) peak factor
- b. Explain working principle and construction of single phase transformer?
- c. Explain concept of earthing and various types of earthing?
- d. Explain characteristics and applications of stepper motors?