

S.B. Roll No.....

ELECTRICAL MACHINE
3rd Exam/ECE/6189/Feb'2021
(For 2018 batch onwards)

Duration: 1.15Hrs.

M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- i. Explain various types of transformers on the basis of construction.
- ii. What is back e.m.f.?
- iii. What are the functions of transformer oil?
- iv. Describe advantages of 3 phase system over single phase system.
- v. Explain D.C servo motors.
- vi. Explain Capacitor start induction motor.
- vii. Compare star and delta connections of three phase system.

SECTION-B

Attempt any one question.

1x10=10

Q2. a) Explain construction and working of Auto-Transformers.

b) Explain universal motor with neat sketch.

Q3. Explain speed control of DC shunt motors.

Q4. Explain Three Point Starter.

Q5. Explain the principle of working and construction of a 3 phase induction motor with the help of sketch.