(Please Write your Roll No immediately)

Roll No E -015

## Class Test-2

B. Tech – 1st Semester Paper Code: ES -107

Time:  $1\frac{1}{2}$ hour

February 2023 Subject: Electrical Science

Max. Marks: 30

Note: All Questions are Compulsory.

Q.1.

Write short answers.

(5x2 = 10 Marks)

What do you understand by Generated Voltage in DC Generator. Discuss in brief the principle of operation of Three – Phase Induction Motor? Discuss in brief the armature rheostatic speed control of DC Shunt Motor? Discuss in brief Deflecting Torque in Indicating Instruments? Discuss in brief Ideal Transformer.

Discuss in brief the Construction of DC Machine. (5 Marks)

Discuss in brief Direct On-Line Starter.

(5 Marks)

Discuss in brief Attraction Type Moving Iron Instrument. (5 Marks) Discuss in brief Three - Phase Transformer Connections. (5 Marks)

Draw the phasor of transpormer of paraeticle (i) for resistance load (ii) for restance tudor load