

Code No: 53026

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, October - 2020

ELECTRICAL ENGINEERING

(Chemical Engineering)

Time: 2 hours

Max. Marks: 75

**Answer any five questions
All questions carry equal marks**

- 1.a) State and explain the Faraday's law of electromagnetic induction.
b) Find the equivalent Y circuit for the circuit shown in figure below.

[7+8]



- 2.a) Define RMS value and Average value and determine these values for half rectified sine wave?
b) An RC series circuit of $R = 20\Omega$ and $C = 125\mu F$ is connected across a voltage source of 160 V, 50 Hz. Determine impedance, power factor, current flowing in the circuit? What is the power dissipated in the circuit. [8+7]
- 3.a) Explain various types of DC Generator.
b) A four-pole generator, having wave-wound armature winding has 51 slots, each slot containing 20 conductors. What will be the voltage generated in the machine when driven at 1500 rpm assuming the flux per pole to be 7.0 mWb? [8+7]
- 4.a) Explain characteristics of DC shunt motors.
b) A 500 V DC shunt motor takes 4 A on no-load, the armature resistance including that of brushes is 0.2 ohm and the field current is 1.0 A. Estimate the output and efficiency when the input current is 20 A. [8+7]
- 5.a) Explain the construction and working principle of a transformer.
b) A 2000/200 V, 20 kVA transformer has 66 turns in the secondary. Calculate the primary turns and the primary and secondary full load currents, neglecting losses. [8+7]
- 6.a) Explain the principle of operation of 3-phase induction motor.
b) A 4-pole, 3-phase induction motor operates from a supply whose frequency is 50 Hz. Calculate: (i) The speed at which the magnetic field of the stator is rotating. (ii) The speed of the rotor when the slip is 0.04. (iii) The frequency of the rotor currents when the slip is 0.03. (iv) The frequency of the rotor currents at standstill. [8+7]
- 7.a) What is an alternator? Write advantages of stationary armature.
b) Write short notes on salient pole type alternator. [8+7]
8. Explain the following with respect to the permanent magnet moving coil meter:
a) Deflecting torque
b) Controlling torque
c) Damping torque. [15]

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