

No. of Printed Pages : 4 181535/171035/121035
Roll No. /031035

**3rd Sem / Branch : 3 Eltx, EI, IC, Medical
Eltx, Power Eltx, Elect. & Eltx. Engg
Subject:- Electrical M/C**

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 A good servo motor should provide high torque at all
a) Loads b) Frequencies
c) Speeds d) Voltages
- Q.2 A PM stepper motor has 8 poles on stator and 4 poles on the rotor. Step angle will be
a) 15° b) 30°
c) 45° d) 60°
- Q.3 Material used for salient poles of a VR stepper motor is
a) Para magnetic b) Diamagnetic
c) Ferromagnetic d) Non-magnetic
- Q.4 In a 3 phase star connected system
a) $V_L = V_P$ b) $V_L = \sqrt{3} V_P$
c) $I_L = 3 I_P$ d) $I_L = I_P / 3$
- Q.5 Various phase of a 3 phase system have a phase difference of

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- a) 60° b) 90°
c) 120° d) 180°
- Q.6 An ideal transformer is considered to have
a) Zero resistance of primary & secondary winding
b) Zero iron loss
c) No leakage of magnetic flux
d) All of the above
- Q.7 Armature of a dc machine is laminated
a) To improve heat dissipation in armature
b) To reduce copper losses
c) To reduce iron losses
d) To increase flux density
- Q.8 Starter is used in a dc motor
a) To increase the starting torque
b) To increase back EMF
c) To reduce the speed of motor
d) To reduce the starting current
- Q.9 Power drawn by a transformer on no load is required to meet mainly
a) Copper losses b) Iron losses
c) Rotational losses d) Load losses
- Q.10 Core of transformer is generally made of
a) Mild stone b) Silicon steel

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- Q.26 How torque is developed due to alignment of two fields?

Q.27 What are the advantages of three phase motor over single phase motor?

Q.28 Explain the function of commutator in DC machine.

- Q.29 Write the application of DC machine.

Q.30 What is the importance of voltage regulation of a transformer?

Q.31 Write about the main parts of a transformer.

- Q.32 What are different types of excitation of DC machines?

Q.33 Write about the application of synchronous machine.

Q.34 Why stator of an induction motor is laminated?

- Q.35 Write the advantages & disadvantages of servo motor.