

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain different starting methods of Induction Motor.
- Q.24 Explain the construction and working of universal motor with the help of diagram.
- Q.25 Explain the construction and working of Induction motor with the help of diagram.

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Roll No.

4th Semester/Electrical Subject: Electrical Machines-II

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The frequency of voltage generated in alternators in India is
- a) 60Hz b) 0Hz
c) 50Hz d) 25Hz
- Q.2 The term cogging is associated with _____ motor.
- a) Induction motor b) Synchronous motor
c) DC Motor d) None of these
- Q.3 Three phase Induction motor are
- a) Self starting b) Not self starting
c) Need D.C. Excitation d) None of these
- Q.4 The rating of alternators is usually expressed in
- a) Ampere b) Volt
c) KVA d) KW

Q.5 A motor in which the rotor turns in discrete movements is called

- a) Servo motor b) Stepper motor
c) Universal motor d) All of these

Q.6 The machine that supplies DC to the rotor of an alternator is called

- a) Rectifier b) Exciter
c) Convertor d) Inverter

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Synchronous motor runs to variable speed (True/False)

Q.8 The cage of rotor is made up of copper. (True/False)

Q.9 Induction motor can rotate at synchronous speed. (True/False)

Q.10 Rotor of a synchronous motor is connected to _____ supply.

Q.11 Single phase induction motor is self starting. (True/False)

Q.12 An overexcited synchronous motor working at no load is called _____.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Name different types of single phase induction motor and their uses.

Q.14 Discuss the cause of hunting.

Q.15 Draw and explain Torque-slip curve of an Induction motor.

Q.16 Write a short note on stepper motor.

Q.17 What do you mean by cogging and crawling in a three phase Induction motor?

Q.18 What are different applications of three phase Induction motor?

Q.19 Explain any two methods of speed control of three phase Induction motor.

Q.20 Compare Induction machines with synchronous machines.

Q.21 Define slip and slip frequency of rotor of a three phase Induction motor.

Q.22 Explain the working principal of Synchronous motor.