

Scheme - I
Sample Question Paper

Program Name : Electrical Engineering Program Group
Program Code : EE/EP/EU
Semester : Fifth
Course Title : Industrial AC Machines
Max. Marks : 70

22523

Time: 3 Hrs.

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Sub-questions in a main question carry equal marks.
- (5) Assume suitable data if necessary.
- (6) Preferably, write the answers in sequential order.

Q.1 Attempt any Five of the following.

10 Marks

- a) Define slip and synchronous speed of 3 phase induction motor.
- b) State any two application of repulsion motor.
- c) Define chording factor and distribution factor.
- d) Define synchronous reactance & synchronous impedance.
- e) State methods of starting of synchronous motor.
- f) List any four applications of BLDC motor.
- g) Draw schematic diagram of AC servo motor.

Q.2 Attempt any Three of the following.

12 Marks

- a) "Three phase induction motor can never run on synchronous speed". Justify
- b) Draw neat diagram of star-delta starter for three phase induction motor.
- c) Explain hunting in synchronous motor. State its causes and effects.
- d) Derive the EMF equation of Alternator. State the meaning of each term used therein.

Q.3 Attempt any Three of the following.

12 Marks

- a) Compare slip ring induction motor with squirrel cage induction motor on any four parameters.
- b) "Three phase induction motor is known as generalized transformer". Justify.
- c) Explain the reason for a single phase induction motor being not self-starting.
- d) A 3 phase, 50Hz, 8 pole alternator has star connected winding with 120 slots and 8 conductors per slot. The flux per pole is 0.05 Wb, sinusoidally distributed. Determine the phase and line voltages.

Q.4 Attempt any Three of the following.

12 Marks

- a) The power input to a six pole, 3 phase, 50 Hz induction motor is 42 kW, the speed being 970 rpm. The stator losses are 1.2 kW and friction and windage losses are 1.8 kW. Find i) slip, ii) Rotor Output iii) Rotor copper loss and iv) Efficiency.
- b) Describe with neat sketch the working of shaded pole induction motor.

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Joacim Rocklöv



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