

(EEE)

Model Questions: All 100 questions will be of Multiple Choice type

1. A 4 – point starter is used to start and control the speed of a
 - (A) dc shunt motor with armature resistance control
 - (B) dc shunt motor with field weakening control
 - (C) dc series motor
 - (D) dc compound motor

2. A three-phase, salient pole synchronous motor is connected to an infinite bus. It is operated at no load a normal excitation. The field excitation of the motor is first reduced to zero and then increased in reverse direction gradually. Then the armature current
 - (A) Increases continuously
 - (B) First increases and then decreases steeply
 - (C) First decreases and then increases steeply
 - (D) Remains constant

3. The inductance of a long solenoid of length 1000 mm wound uniformly with 3000 turns on a cylindrical paper tube of 60mm diameter is
 - (a) 3.2 μ H (b) 3.2 mH (c) 32.0 mH (d) 3.2 H

4. In thermal power plants, the pressure in the working fluid cycle is developed by
 - (a) condenser (b) super heater
 - (c) feed water pump (d) turbine

5. A dc potentiometer is designed to measure up to about 2V with a slide wire of 300 mm. A standard cell of emf 1.18 V obtains balance at 600 mm. A test cell is seen to obtain balance at 680 mm. The emf of the test cell is
 - (a) 1.00 V (b) 1.34 V (c) 1.50 V (d) 1.70 V

6. The resistance and reactance of a 100 kVA 11000/400V, -Y distribution transformer are 0.02 and 0.07 pu respectively. The phase impedance of the transformer referred to the primary is
 - (a) $(0.02 + j0.07)\Omega$ (b) $(0.55 + j1.925)\Omega$
 - (c) $(15.125 + j52.94)\Omega$ (d) $(72.6 + j254.1)\Omega$

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