Mansoura University Faculty of Engineering BME Program Level 100 1° Semester 2020-2021





Course Title: Electrical Power Engineering Course Code: FCR141 Final Exam (1 Page) Wednesday 17-3-2021 Time: 2.0 Hr. 50 Marks

Please Answer All Questions

Q.1 (13 Marks)

a. Explain the losses distribution in DC generators.

(5 Marks)

b. A 220 V dc, shunt motor runs at 500 rpm when the armature current is 50 A. Calculate the speed if the torque is doubled. Given that R_a = 0.2 ohm.

(8 Marks)

Q.2 (13 Marks)

a. Compare using sketch between 2-wires and 3-wires DC distribution systems.

(5 Marks)

b. Obtain the equivalent circuit of a 200/400 V, 50 Hz, single phase transformer from the following test data:

 O.C. test: 200 V, 0.7 A, 70 W - on LV side,
 S.C. test: 15 V, 10 A, 85 W - on HV side.

Q.3 (12 Marks)

State the advantages and disadvantages of electromagnetic and digital relays.

(4 Marks)

b. The power input to the rotor of 440 V, S0 Hz, 6 pole, 3-phase, induction motor is 80 kW. The rotor electromotive force is observed to make 100 complete alterations per minute. Calculate the slip, the rotor speed, and rotor copper losses per phase. (8 Marks)

Q.4 (12 Marks)

Explain the conditions for parallel operation of synchronous generators.

(4 Marks)

b. Two tram cars (A & B) 2 km and 6 km away from a substation return 40 A and 20 A respectively to the rails. The substation voltage is 600 V dc. The resistance of trolley wire is 0.25 ohm/km and that of track is 0.03 ohm/km. Calculate the voltage across each tram car. (8 Marks)

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