

Q12 (a) A synchronous generator and an induction generator feed a 200V, 50Hz AC supply. Will the synchronous generator will operate at higher speed? (2.5 marks)

(b) What will be the effect of increasing rotor resistance for a constant value of synchronous motor on (i) Starting torque, (ii) Starting current and (iii) maximum torque? (3.5 marks)

(c) What is the value or range of slip for the following operating conditions in a three-phase induction motor: (2 marks)

(i) Start condition, (ii) Full load operating, (iii) generating and (iv) braking.

Q13 A 4 pole, 50 Hz, 3-phase induction motor running on full load has shaft torque of 150 Nm at a rotor frequency of 1.5 Hz. Calculate the shaft power output, if the mechanical torque lost to windage and friction is 20 Nm, determine (i) Motor speed in rpm, (ii) The input power to the motor and (iii) efficiency. (5x2 = 10 marks)

Q14 (a) What are the conditions for synchronization of a synchronous generator to the infinite bus? (2 marks)

(b) A three-phase 4-pole star-connected synchronous generator operates at 5000 rpm. The stator has 36 slots and 8 conductors per slot. The flux per pole is 0.025 Wb (sinusoidally distributed). Calculate the voltage generated by the machine if the winding factor is 0.96. (4 marks)

Q15 A 4.15 MW, 11 kV, star-connected three-phase alternator is delivering full load at 0.8 power factor lagging. The synchronous reactance of the generator is 100 Ω . Compute the full load current and the terminal voltage. (4 marks)

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