

1. (a) Explain the block diagram of electrical drive. Explain the function of Power modulator. 10
 (b) Explain the four quadrant operation of a d.c. Separately excited motor using 3-phase dual converter. 10
2. (a) What are the different component of load torque ? Derive the torque equation in terms of these component. 10
 (b) A drive has following parameters $J = 10 \text{ kg-m}^2$, $T = 15 + 0.05 N$, N -m and $T/ = 5 + 0.06 N$, N -m, where N - is the speed in rpm. Initially the drive is working in steady-state. Now the drive is braked by electrical braking. Torque of the motor in braking is given by $T = -10 - 0.04 N$, N -m. Calculate time taken by the drive to stop. 10
3. (a) A thyristor converter fed d.c. motor has following specifications : Rated armature current = 500A, Armature resistance = 0.01 Ohm. The drive operates on following duty cycle :-
 (i) Acceleration at twice the rated armature current for 10 sec.
 (ii) Running at full load for 10 sec.
 (iii) Deceleration at twice the rated armature current for 10 sec.
 (iv) Idling interval.
 The core loss is constant at 1kW. If β has a value of 0.5, determine maximum frequency of drive operation. 10
 (b) Explain the basic principle of Vector Control method and its classification. 10
4. (a) A 220 V, 1500 rpm, 50 A separately excited motor with armature resistance of 0.5 Ω , is fed from a 3-phase fully - controlled rectifier. Available a.c. source has a line voltage of 440 V, 50 Hz. A star-delta connected transformer is used to feed the armature so that motor terminal voltage equals rated voltage when converter firing angle is zero.
 (i) Calculate transformer turns ratio.
 (ii) Determine the value of firing angle when :- (a) motor is running at 1200 rpm and rated torque (b) when motor is running at - 800 rpm and twice the rated torque.
 Assume continuous conduction. 10
 (b) Write detail notes on Load Equalization. 10
5. (a) A 220 V, 970 rpm, 100 A d.c. separately excited motor has an armature resistance of 0.05 Ω . It is braked by plugging from an initial Speed of 1000 rpm. Calculate :-
 (i) Resistance to be placed in armature circuit to limit braking current to twice the full load value.
 (ii) Braking torque and.
 (iii) Torque when the speed has fallen to zero. 10
 (b) Explain with a neat diagram and waveform, how power factor improvement is done in a single-phase semi-converter d.c. drive using extinction angle control method. 10
6. (a) Explain 'slip-power recovery' schemes. Draw the schematic diagrams and also derive the necessary equations. 10
 (b) Write detail notes on Thermal Model of motor for heating and cooling. 10
7. Explain the following (any two) :- 20
 (a) Steady State Stability
 (b) Synchronous Motor Variable Speed Drives

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Tobias Bleicker



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