[TURN OVER]

5. (b) A 220V, 1300 rpm, 8A separately excited DC motor has armature 10 resistance of 1 ohm. It is fed from a single-phase fully controlled bridge rectifier with an AC source voltage of 230 volts, 50Hz. Assuming continuous load, compute Motor speed at firing angle of 45 degrees and torque of 5 NM.

6. Write short notes on (any three)

- (a) Battery charging system.
- (b) Kramer's drive.
- (c) Classification of UPS.
- (d) Harmonic reduction in inverters

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