

OR

- Que.-4 (A) With a block diagram, explain about microprocessor-based power control of PMSM. [06]
(B) Derive the EMF equation of Permanent Magnet Synchronous Motor (PMSM). [06].
- Que.-5 (A) Explain working principle of PMDC motor and Mention their merits and applications. [05]
(B) Derive torque and emf equation of PMDC motor with equivalent circuit. [06]

OR

- Que.-5 (A) What is Permeance co-efficient (PC)? Explain their related factors and Self demagnetization with neat sketch. [05]
(B) Derive the EMF equation of Permanent Magnet Synchronous Motor (PMSM). [06]
- Que.-6 Attempt any two: [12]
(A) What is standard motor efficiency?
(B) Explain Segregation loss method for evaluation of motor efficiency.
(C) Differentiate between a stepper motor and a conventional motor.

END OF PAPER