

a.

A.,

13. a) Describe from the basic concepts to derive the EMF equation PMBL *13,K2,C03* square wave motor.

OR

- b) Compare Electronic and Mechanical Commutator in detail and Explain ^{13,K2,CO3} the construction of PMBLDC.
- 14. a) With a neat sketch, explain the construction of the sine wave PMSM 13,K2,CO4 motor. Also explain the different types of rotor.

OR

- b) Compare PMBLDC motor and PMSM motor based on their 13,K2,CO4 performance parameters.
- 15. a) Explain the constructional details and working principle of 13,K2,CO-synchronous reluctance motor with neat diagrams.

OR

b) Explain the torque speed characteristics of Synchronous reluctance 13,K2,C05 motor. Mention its applications.

$PART - C (1 \times 15 = 15 Marks)$

16. a) With a neat diagram, explain the construction and working principle 15,K2,CO6 and also its characteristics of Linear induction motor.

OR

b) Explain about the construction and working principle of the repulsion 15.K2,CO6 motor.

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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