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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE -  
RAIGAD -402 103  
Mid Semester Examination - March - 2019

Branch: B.Tech (Electronics & Telecommunication) Sem.- IV

Subject :Electrical machines and instruments Subject Code:- BTESC401

Date:- 11/03/2019 Time:- 1 Hr. Marks: 20

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Instructions:- Assume data if required

Q.No.1 State True or false (Marks) (06)

1. Induction motor needs supply to rotate
2. Dc shunt motor is constant speed motor
3. Synchronous motors are not self starting motors
4. Step angle calculations based on  $N_s$  &  $N_R$
5. Squirrel cage motors are rugged motors
6. Four point starter supports speed control methods

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Q.No.2 Solve any two of the following: (3x2) (8)

- A.) What are the types of DC motors
- B.) What do understand the slip of induction motors
- C.) What are applications of stepper motors

Q.No.3 Solve any one of the following (8)

- (A) Derive an expression for EMF generated by DC generator.
- (B) How does the induction motor works by means of its components.

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