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Competitive Exams: Electronics MCQs (Practice_Test 5 of 13)

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1. The crawling in an induction motor is caused by
 - a. improper design of the machine
 - b. low voltage supply
 - c. high loads
 - d. harmonics developed in the motor

Answer: d

2. The speed of an induction motor
 - a. decreases too much with the increase of load
 - b. increase with the increase of load
 - c. decreases slightly with the increase of load
 - d. remains constant with the increase of load

Answer: c

3. The effect of increasing the length of the air gap in an induction motor will increase
 - a. power factor
 - b. speed
 - c. magnetising current
 - d. air-gap flux

Answer: c

4. the difference between the synchronous speed and the actual speed of an induction motor is known as
 - a. Regulation

- b. back lash
- c. slip
- d. lag

Answer: c

5. Rotating magnetic field is produced in a
- a. single-phase induction motor
 - b. three phase induction motor
 - c. dc series motor
 - d. ac series motor

Answer: b

6. The stator core of the induction motor is made of
- a. Laminated cast iron
 - b. Mild steel
 - c. Silicon steel stampings
 - d. Soft wood

Answer: c

7. Star-delta starter of an induction motor
- a. Inserts resistance in rotor circuit
 - b. Inserts resistance in stator circuit
 - c. Applies reduced voltage to rotor
 - d. Applies reduced voltage to stator

Answer: d

8. The starting torque of a 1-phase induction motor is
- a. High
 - b. Medium
 - c. Low
 - d. Zero

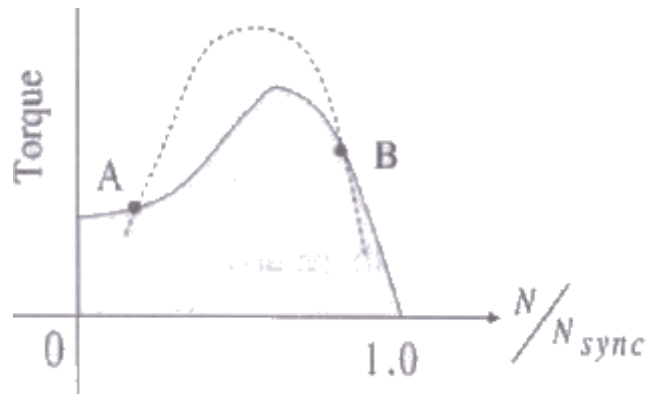
Answer: d

9. The thrust developed by a linear induction motor depends on

- a. Synchronous speed
- b. Rotor input
- c. Number of poles
- d. both A and B

Answer: d

10. A 3-phase squirrel cage induction motor supplied from a balanced 3-phase source drives a mechanical load.



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The torque-speed characteristics of the motor (solid curve) and of the load (dotted curve) are shown. Of the two equilibrium points A and B, which of the following options correctly describes the stability of A and B? [GATE 2009]

- a. A is stable B is unstable
- b. A is unstable B is stable
- c. Both are stable
- d. Both are unstable

Answer: b