

Electrical Engineering Synchronous Motors MCQ Questions & Answers Pdf

1. A synchronous motor can be used as a synchronous capacitor when it is
- under loaded
 - over loaded
 - under excited
 - over excited

Ans: D

2. For V-curves for a synchronous motor the graph is drawn between
- field current and armature current
 - terminal voltage and load factor
 - power factor and field current
 - armature current and power factor

Ans: a

3. The back e.m.f. of a synchronous motor depends on
- speed
 - load
 - load angle
 - all of the above

Ans: C

4. The shaft of synchronous motor is made of
- mild steel
 - chrome steel
 - alnico
 - stainless steel

Ans: A

5. The operating speed of a synchronous motor can be changed to new fixed value by
- changing the load
 - changing the supply voltage
 - changing frequency
 - using brakes

Ans: C

6. The rotor copper losses, in a synchronous motor are met by
- d.c. source
 - armature input
 - motor input
 - supply lines

Ans: A

7. A synchronous motor running with normal excitation adjust to load increases essentially by increase in

- a. back e.m.f
- b. armature current
- c. power factor
- d. torque angle

Ans: B

8. Slip rings are usually made of

- a. carbon or graphite
- b. brass or steel
- c. silver or gold
- d. copper or aluminium

Ans: B

9. To limit the operating temperature an electrical machine should have proper

- a. voltage rating
- b. current rating
- c. power factor
- d. speed

Ans: B

10. In a synchronous motor running with fixed excitation, when the load is increased three times, its torque angle becomes approximately

- a. one third
- b. twice
- c. thrice
- d. six times

Ans: C

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