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Three Phase Systems In Power Applications MCQ Test

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Q1. As compared to three phase induction motor the advantage of synchronous Motor in addition to its constant speed is

- A. Better efficiency
- B. Higher Power factor
- **C. Both A & B**
- D. None of the above

Q2. In a balanced three-phase load, each phase.....

- A. One-third of total power
- B. Two-thirds of total power
- C. A power consumption equal to $(\sqrt{3}VL) IL$
- **D. An equal amount of power**

Q3. Choppers converter.....

- A. AC to AC
- **B. DC to DC**
- C. AC to DC
- D. AC to DC

Q4. Three phase full converter will requirenumber of SCRs.

- A. 2
- B. 3
- C. 6
- D. 9

Q5. In case of a three phase full controlled converter with 6 SCRs, commutation occurs every.....

- A. 30°
- B. 60°
- C. 120°
- D. 180°

Q6. In a three phase AC circuit, the sum of all three generated voltages is.....

- A. Zero
- B. One
- C. Infinite
- D. None of the above

Q7. An induction motor is.....

- A. Requires external supply
- B. Self-starting
- C. Both A and B
- D. None of these

Q8. The power consumed by a three-phase load can be determined using the formula

- A. $P = \sqrt{3} V I \cos \phi$
- B. $P = 3 V I \cos \phi$
- C. $P = \sqrt{3} V I \sin \phi$
- D. $P = \sqrt{3} V I$

Q9. The windings of a three-phase alternator are separated by.

- A. 100° E
- B. 120° E

- C. 220° E
- D. 420° E

Q10. Three units of single phase transformers and one single three-phase transformer rating are

- **A. will be same for one rating**
- B. can never be made same
- C. may be same
- D. none of the mentioned

Q11. For a three-phase full controlled converter with R load, the average value of output voltage is zero for.....

- A. $\alpha = 0^\circ$
- **B. $\alpha = 90^\circ$**
- C. $\alpha = 180^\circ$
- D. $\alpha = 360^\circ$

Q12. The device which performs DC-AC conversion

- A. Switch
- B. Chopper
- **C. Inverter**
- D. Rectifier

Q13. Rotor induced EMF is nearly.....of maximum value

- A. 5%
- B. 10%
- C. 15%
- **D. 20%**

Q14. In a three phase bridge rectifier circuit for HVDC transmission, the ratio of output dc voltage to input ac voltage is

- A. 2
- **B. 0.5**

- C. 1.0
- D. 1.71

Q15. Rotor induced EMF is nearly.....of maximum value

- A. 5%
- B. 10%
- C. 15%
- D. 20%

Q16. In a three phase voltage source inverter operating in square wave mode, the output line voltage is free from

- A. 3rd harmonic
- B. 13th harmonic
- C. 7th harmonic
- D. 11th harmonic

Q17. A three phase full coverter is supplying a purely resistive load at 300 V dc for 0° firing angle. The output voltage for 90° firing angle would be

- A. 100 V
- B. 0 V
- C. 40 V
- D. 50 V

Q18. Resultant flux of 3 phase induction motor is.

- A. 2 ?m
- B. 3 ?m
- C. (3/2)?m
- D. (?3/2)?m

Q19. Synchronous speed of a 3 phase, 4 pole, 50Hz induction motor is.

- A. 1440 rpm
- **B. 1500 rpm**
- C. 2880 rpm
- D. 3000 rpm

Q20. What is the magnitude of each line current in a Y-connected circuit?

- A. One-third the phase current
- B. Three times the corresponding phase current
- **C. Equal to the corresponding phase current**
- D. Zero

Q21. The most common type of ac motor is the _____.

- A. Single-phase induction motor
- B. Two-phase induction motor
- C. Two-phase squirrel-cage motor
- **D. Three-phase induction motor**

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