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Three Phase Systems In Power Applications MCQ Test

Q1. In a three phase ac circuit the sum of all three generated voltage is

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

Q2. For a three-phase full controlled converter with r load, the average value of output voltage is zero for

- A. $\alpha = 90^\circ$**
- B. $\alpha = 180^\circ$
- C. $\alpha = 270^\circ$
- D. $\alpha = 360^\circ$

Q3. The power consumed by a three phase load can be determined using the formula

- A. $P = \sqrt{3} V I$
- B. $P = 3 V I \cos \phi$
- C. $P = \sqrt{3} V I \sin \phi$**
- D. None of the above

Q4. In case of three phase fully controlled converter with 6 scrs commutation occurs every

- A. 30°
- B. 60°**
- C. 90°
- D. 120°

Q5. In a balanced three-phase load, each phase

- A. An equal amount of power
- B. Two-thirds of total power
- C. A power consumption equal to $(\sqrt{3}V_L) I_L$**

D. None of the above

Q6. 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. Lower Power factor
- D. Both Better efficiency & Higher Power factor**

Q7. The most common type of ac motor is the

- A. Single-phase induction motor
- B. Three-phase induction motor**
- C. Two-phase induction motor
- D. None of the above

Q8. Rotor induced EMF is nearly 20% of maximum value.

- A. True**
- B. False

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

- A. 100° E
- B. 200° E
- C. 120° E**
- D. None of the above

Q10. In a three-phase system, when the loads are perfectly balanced, the neutral current is

- A. at maximum
- B. zero**
- C. two-thirds of maximum
- D. one-third of maximum

Q11. In a certain three-wire Y-connected generator, the phase voltages are 2 kV. The magnitudes of the line voltages are

- A. 666 V

- B. 2,000 V
- C. 3,464 V**
- D. None of the above

Q12. Polyphase generators produce simultaneous multiple sinusoidal voltages that are separated by

- A. Certain constant voltages
- B. Certain constant currents
- C. Certain constant phase angles**
- D. None of the above

Q13. A single-phase sinusoidal voltage of 120 V is connected to a 90 load. Current in the circuit is

- A. 6.2 A
- B. 1.33 A**
- C. 13.3 mA
- D. None of the above

Q14. A constant load power means a uniform conversion of

- A. Voltage to current
- B. Current to voltage
- C. Electrical to mechanical energy**
- D. None of the above

Q15. In a -connected generator, all of the phase voltages are

- A. zero
- B. one-third of total
- C. equal in magnitude**
- D. None of the above

Q16. Choppers converts

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

Q17. Three units of single phase transformers and one single three-phase transformer

rating

- A. May be same
- B. Can never be made same
- C. Will be same for one rating**
- D. None of the above

Q18. Which of the following device perform DC-AC conversion?

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

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

- A. 1400 rpm
- B. 1500 rpm**
- C. 3000 rpm
- D. 2800 rpm

Q20. What is the Resultant flux of 3 phase induction motor?

- A. $2 \phi_m$
- B. $3 \phi_m$
- C. $(\frac{3}{2})\phi_m$
- D. $(\frac{3}{2})\phi_m$**

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