

Online Assessment (Even Sem/Part-I/Part-IISpecial Examinations of Intermediate semester 2019 - 2020

Course Name - Electrical Machine II

Course Code - DEE401

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Answer all the questions. Each question carry one mark.

9. 1. The resultant flux in an induction motor is equal to the

Mark only one oval.

- Maximum value of flux due to any phase
- Twice of the maximum value of flux due to any phase
- 0.5 times the maximum value of flux due to any phase
- 1.5 times the maximum value of flux due to any phase

10. 2. Slip ring induction motor has

Mark only one oval.

- Low starting torque
- Medium starting torque
- High starting torque
- None of these

11. 3. In induction motor the unit of slip is

Mark only one oval.

- Unit less
- RPM
- m/s
- radian

12. 4. In an induction motor, no-load the slip is generally

Mark only one oval.

- Less than 1%
- 2%
- 4%
- 5%

13. 5. The starting torque of an induction motor is maximum when

Mark only one oval.

- Rotor resistance equals rotor reactance
- Rotor resistance is twice the rotor reactance
- Rotor resistance is half the rotor reactance
- None of these

14. 6. With increase of load, the speed of induction motor

Mark only one oval.

- Remains constant
- Not related
- Increases
- Decreases

15. 7. When the rotor of a three phase induction motor is blocked its rotor frequency will become

Mark only one oval.

- zero
- half of supply frequency
- equal to supply frequency
- very high

16. 8. The basic operation of an induction motor is based on

Mark only one oval.

- self induction
- mutual induction
- magnetic knocking
- Lorentz Force

17. 9. When the supply frequency of a three phase induction motor is increased, then its synchronous speed is

Mark only one oval.

- decreases
- increases
- remain same
- None of these

18. 10. When the rotor of 3 phase induction motor run at synchronous speed, its rotor frequency will become

Mark only one oval.

- zero
- half of supply frequency
- very high
- equal to supply frequency

19. 11. Direct online starter(D.O.L starter) is used for motors having capacity

Mark only one oval.

- Less than 5 H.P
- Less than 10 H.P
- Greater than 10 H.P
- For any capacity motor

20. 12. When rotor resistance of a three phase induction motor become equal to its rotor reactance, its starting torque will be

Mark only one oval.

- zero
- maximum
- minimum
- none of these

21. 13. The reactance of the rotor circuit of three phase induction motor is maximum at

Mark only one oval.

- synchronous speed
- full-load
- no-load
- stand-still condition

22. 14. If the slip of 3 phase induction motor is increases, the current in its stator winding

Mark only one oval.

- increases
- decreases
- remain same
- None of these

23. 15. Which starting method cannot be used for starting 3 phase squirrel cage induction motor?

Mark only one oval.

- Star-Delta
- Rotor resistance
- Line resistance
- Auto-transformer

24. 16. Starters are used in induction motor because

Mark only one oval.

- starting torque is high
- It cannot run in reverse direction
- Its starting current is five times or more than its rated current
- It is run against heavy load

25. 17. Winding of star - delta starter while starting and running are connected in

Mark only one oval.

- Star , Delta
- Delta , Delta
- Star , Star
- Delta , Star

26. 18. Cogging in an induction motor is caused

Mark only one oval.

- If the motor is running at fraction of its rated speed
- If the number of stator slots are integral multiple of rotor slots
- Due to fifth harmonic
- All of these

27. 19. For the purpose of starting an induction motor, star-delta switch is an equivalent to auto transformer of ratio

Mark only one oval.

- 33.3%
- 57.7%
- 50%
- 66.3%

28. 20. Crawling is a phenomena mainly associated with

Mark only one oval.

- 2nd Harmonic
- 3rd Harmonic
- 7th Harmonic
- 5th Harmonic

29. 21. Which of the following methods is easily applicable to control the speed of the squirrel cage induction motor?

Mark only one oval.

- Rotor rheostat control
- By changing the number of stator pole
- By injecting emf into the rotor circuit
- By operating two motors in cascade

30. 22. If the field of a synchronous motor is under excited, the power factor will be

Mark only one oval.

- Lagging
- Leading
- Unity
- More than unity

31. 23. In case the air gap in an induction motor is increased

Mark only one oval.

- The power factor will decrease
- The magnetizing current of the rotor will decrease
- Speed of motor will increase
- The windage losses will increase

32. 24. In huge alternators, the moving part is

Mark only one oval.

- Poles
- Brushes
- Armature
- None of the these

33. 25. Synchronous motor always runs at

Mark only one oval.

- The synchronous speed
- Less than synchronous speed
- More than synchronous speed
- None of these

34. 26. The V-curves of a synchronous motor show relationship between

Mark only one oval.

- Excitation current and back e.m.f
- Field current and p.f
- D.C. field current and A.C. armature current
- Armature current and supply voltage

35. 27. If starting winding of a single-phase induction motor is left in the circuit, it will

Mark only one oval.

- Damage the starting winding
- Run Faster
- Run slower
- Spark at light load

36. 28. In a split phase motor

Mark only one oval.

- Both starting and running windings are connected through a centrifugal switch
- Centrifugal switch is used to control supply voltage
- The running winding is connected through a centrifugal switch
- The starting winding is connected through a centrifugal switch

37. 29. If a particular application needs high-speed and high starting torque, then which of the following motor will be preferred?

Mark only one oval.

- Shaded pole motor
- Capacitor start motor
- Capacitor run motor
- Universal Motor

38. 30. How many poles will be required if an alternator runs at 1500 rpm and given frequency of 50 Hz?

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6 pole

8 Pole

4 Pole

2 Pole

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