

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - –Electrical Technology

Course Code - DME206

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Answer all the questions. Each question carry one mark.

9. 1. In a series R-L circuit, V_L ___ V_R by ___ degrees. *

Mark only one oval.

- lags,45
- lags,90
- leads,90
- leads,45

10. 2. Fleming's left hand rule may be applied to *

Mark only one oval.

- Motor
- Generator
- Transformer
- All of the above

11. 3. The generating voltage and frequency in India is about? *

Mark only one oval.

- 11 kV and 60 Hz
- 11 kV and 50 Hz
- 220 kV and 60 Hz
- 220 kV and 50 Hz

12. 4. The emf induced in the dc generator armature winding is *

Mark only one oval.

- AC
- DC
- AC and DC
- None of the above

13. 5. How many coulombs of charge flow through a circuit carrying a current of 10 A in 1 minute? *

Mark only one oval.

- 10
- 60
- 600
- 1200

14. 6. The resistance of pure metals _____ *

Mark only one oval.

- Increases with an increase in temperature
- Decreases with an increase in temperature
- Remains the same with an increase in temperature
- Becomes zero with an increase in temperature

15. 7. Power factor of an inductive circuit is usually improved by connecting capacitor to it in *

Mark only one oval.

- Parallel
- Series
- Either (A) or (B)
- None of the above

16. 8. Which is not a part of DC machine *

Mark only one oval.

- Yoke
- Commutator
- Armature
- Breather

17. 9. In DC generators brushes are used for *

Mark only one oval.

- collecting of voltage
- collecting of current without any sparkings
- reduce eddy current loss
- convert ac armature current in to dc

18. 10. Substances which have permeability less than the permeability of free space are known as *

Mark only one oval.

- ferromagnetic
- paramagnetic
- diamagnetic
- bipolar

19. 11. Which of the following is not an expression power? *

Mark only one oval.

$P=VI$

$P=I.I.R$

$P=V.V/R$

$P=I/R$

20. 12. The time constant of a series R-C circuit is given by *

Mark only one oval.

R/C

RC^2

RC

R^2C

21. 13. The unit of magnetic flux is *

Mark only one oval.

Henry

weber

ampereturn/weber

ampere/metre

22. 14. Full form of MCB *

Mark only one oval.

- Miniature Circuit Breaker
- Mini Circuit Breaker
- Minimum Current Breaker
- Maximum Current Breaker

23. 15. In a given transformer for a given applied voltage, which losses remain constant irrespective of load changes? *

Mark only one oval.

- Friction and windage losses
- Hysteresis and eddy current losses
- Copper losses
- Cannot be determined

24. 16. Unit of resistance is *

Mark only one oval.

- Mho
- Ohm
- Farad
- Henry

25. 17. Alternating current measured in a transmission line will be *

Mark only one oval.

- Peak value
- Average value
- RMS value
- Zero

26. 18. Which of the following is not a unit of flux? *

Mark only one oval.

- Maxwell
- Telsa
- Weber
- All of the above

27. 19. What is the main reason for using the high voltage for the long distance power transmission? *

Mark only one oval.

- Reduction in the time of transmission
- Reduction in the transmission losses
- Increase in system reliability
- None of these

28. 20. The armature of DC motor is laminated to _____ *

Mark only one oval.

- To reduce mass
- To reduce hysteresis loss
- To reduce eddy current loss
- To reduce inductance

29. 21. Quality factor-Q of a resonant circuit signifies: *

Mark only one oval.

- Loss in the resonant circuit
- Gain in the resonant circuit
- Magnetic energy stored in the circuit
- Electric energy stored in the circuit

30. 22. Permanent magnet are manufactured by *

Mark only one oval.

- Copper sulphate
- Iron and cobalt
- Cobalt and nickel
- ALNICO

31. 23. Miniature circuit breaker is a small *

Mark only one oval.

- fuse
- magnetic switch
- electromagnetic switch
- two way switch

32. 24. For an ideal DC machine, which phenomenon will reduce the terminal voltage?

*

Mark only one oval.

- Armature reaction
- Commutation
- Armature ohmic losses
- All will contribute in reducing the terminal voltage

33. 25. In case of Short Circuit, _____ Current will flow in the Circuit. *

Mark only one oval.

- Zero
- Very Low
- Normal
- Infinite

34. 26. The voltage applied across an R-L circuit is equal to ___ of V_R and V_L . *

Mark only one oval.

- arithmetic sum
- algebraic sum
- phasor sum
- sum of the squares

35. 27. What is the unit of magnetic flux density *

Mark only one oval.

- Weber
- Tesla
- Weber/m
- Weber-1

36. 28. The fuse blows off by *

Mark only one oval.

- burning
- arcing
- melting
- none of the above

37. 29. The generating action and motoring action in d.c. machine is determined by *

Mark only one oval.

- Fleming's left hand rule, Fleming's right hand rule
- Fleming's right hand rule, Fleming's left hand rule
- Both by Fleming's left hand rule
- Both by Fleming's right hand rule

38. 30. Star connection is also known as _____ *

Mark only one oval.

- Y-connection
- Mesh connection
- Either Y-connection or mesh connection
- Neither Y-connection nor mesh connection

39. 31. Which of the following statements are true about insulators? *

Mark only one oval.

- Insulators have a positive temperature coefficient
- Insulators have a negative temperature coefficient
- Insulators have zero temperature coefficient
- Insulators have infinite temperature coefficient

40. 32. Power factor of electric bulb is *

Mark only one oval.

- Zero
- Lagging
- Leading
- Unity

41. 33. A transformer transforms _____ *

Mark only one oval.

- voltage
- current
- power
- frequency

42. 34. A DC generator without commutator is a *

Mark only one oval.

- AC generator
- DC motor
- DC generator
- induction motor

43. 35. KVL can be applied at *

Mark only one oval.

- Loop
- Node
- Both loop and node
- Neither loop nor node

44. 36. Kilowatt-hour(kWh) is a unit of? *

Mark only one oval.

- Current
- Power is proportional to current only
- Energy
- Resistance

45. 37. A heater is rated as 230 V, 10 kW, A.C. The value 230 V refers to *

Mark only one oval.

- Average voltage
- r.m.s. voltage
- Peak voltage
- None of the above

46. 38. The unit of retentivity is *

Mark only one oval.

- weber
- weber/sq. m
- ampere turn/metre
- ampere turn

47. 39. DC machine is a *

Mark only one oval.

- conduction machine
- convection machine
- both are correct
- none of above are correct

48. 40. Turns ratio of the transformer is directly proportional to _____ *

Mark only one oval.

- Resistance ratio
- Frequency ratio
- Voltage ratio
- Not proportional to any terms

49. 41. One volt is the same as *

Mark only one oval.

- one joule/coulomb
- one coulomb/joule
- one coulomb
- one joule

50. 42. The frequency of an alternating current is *

Mark only one oval.

- The speed with which the alternator runs
- The number of waves passing through a point in one second
- The number of cycles generated in one minute
- The number of electrons passing through a point in one second

51. 43. Susceptibility is positive for *

Mark only one oval.

- non-magnetic substances
- diamagnetic substances
- ferromagnetic substances
- none of the above

52. 44. The most suitable practical value of primary distribution is? *

Mark only one oval.

- 66 kV
- 6.6 kV
- 230 V/ 400 V
- 22 kV

53. 45. The transformer ratings are usually expressed in..... *

Mark only one oval.

- Volts
- Amperes
- Kw
- KVA

54. 46. The power factor of a D.C. circuit is always *

Mark only one oval.

- Less than unity
- Unity
- Greater than unity
- Zero

55. 47. Air gap has _____ reluctance as compared to iron or steel path *

Mark only one oval.

- little
- lower
- higher
- zero

56. 48. Single line diagram does not represents: *

Mark only one oval.

- Ratings of machines
- Delta connection of transformer winding
- Neutral wire of transmission lines
- Star connection of transformer winding

57. 49. Emf and torque produced in a DC machine are proportional to _____ and _____ respectively. *

Mark only one oval.

- Armature speed and armature emf
- Armature emf and armature speed
- Armature current and armature emf
- Armature speed and armature current

58. 50. The resistance of insulators _____ *

Mark only one oval.

- Increases with an increase in temperature
- Remains the same with an increase in temperature
- Decreases with an increase in temperature
- Becomes zero with an increase in temperature

59. 51. Which, among the following is the correct expression for impedance? *

Mark only one oval.

- $Z = Y$
- $Z = 1/Y$
- $Z = Y^2$
- $Z = 1/Y^2$

60. 52. Identify which of the following is the unit of magnetic flux density? *

Mark only one oval.

- Weber
- Weber/m
- Tesla
- Weber-1

61. 53. A fuse is connected *

Mark only one oval.

- in series with circuit
- in parallel with circuit
- either in series or in parallel with circuit
- none of the above

62. 54. When the motor runs on no load, then *

Mark only one oval.

- Back emf is almost equal to applied voltage
- Back emf will be greater than applied voltage
- Back emf will be less than applied voltage
- None of these

63. 55. Delta connection is also known as _____ *

Mark only one oval.

- Y-connection
- Mesh connection
- Either Y-connection or mesh connection
- Neither Y-connection nor mesh connection

64. 56. In a series circuit, which of the parameters remain constant across all circuit elements? *

Mark only one oval.

- Voltage
- Current
- Both voltage and current
- Neither voltage nor current

65. 57. Ohm is unit of all of the following except *

Mark only one oval.

- Inductive reactance
- Capacitive reactance
- Resistance
- Capacitance

66. 58. Unit for quantity of electricity is *

Mark only one oval.

- ampere-hour
- watt
- joule
- coulomb

67. 59. Commutator in DC generator is used for *

Mark only one oval.

- collecting of current
- reduce losses
- increase efficiency
- convert AC armature current in to DC

68. 60. KCL can be applied at *

Mark only one oval.

- Loop
- Node
- Both loop and node
- Neither loop nor node

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