

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

Course Name - –Electrical Technology

Course Code - DCSE206

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Answer all the questions. Each question carry one mark.

9. 1. If 1 A current flows in a circuit, the number of electrons flowing through this circuit is

Mark only one oval.

- 0.625×10^{19}
- 1.6×10^{19}
- 1.6×10^{-19}
- 0.625×10^{-19}

10. 2. Unit of resistance is

Mark only one oval.

- Mho
- Ohm
- Farad
- Henry

11. 3. One volt is the same as

Mark only one oval.

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

12. 4. Which, among the following is a unit for resistivity?

Mark only one oval.

- ohm/metre
- ohm/metre²
- ohm-metre
- ohm-metre²

13. 5. Which of the following is not an expression power?

Mark only one oval.

$P=VI$

$P=I.I.R$

$P=V.V/R$

$P=I/R$

14. 6. Kilowatt-hour(kWh) is a unit of?

Mark only one oval.

Current

Power is proportional to current only

Energy

Resistance

15. 7. A battery converts_____

Mark only one oval.

Electrical energy to chemical energy

Mechanical energy to electrical energy

Chemical energy to electrical energy

Chemical energy to mechanical energy

16. 8. 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

17. 9. 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

18. 10. 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

19. 11. In a series R-L circuit, V_L ___ V_R by ___ degrees.

Mark only one oval.

lags,45

lags,90

leads,90

leads,45

20. 12. 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

21. 13. Which, among the following is the correct expression for impedance?

Mark only one oval.

$Z = Y$

$Z = 1/Y$

$Z = Y^2$

$Z = 1/Y^2$

22. 14. What is the unit of admittance?

Mark only one oval.

- ohm
- henry
- farad
- ohm-1

23. 15. 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

24. 16. The power factor of a D.C. circuit is always

Mark only one oval.

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

25. 17. Pure inductive circuit

Mark only one oval.

- Consumes some power on average
- Takes power from the line during some part of the cycle and then returns back to it during other part of the cycle
- Does not take power at all from a line
- None of the above

26. 18. Alternating current measured in a transmission line will be

Mark only one oval.

- Peak value
- Average value
- RMS value
- Zero

27. 19. 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

28. 20. In a pure inductive circuit if the supply frequency is reduced to $1/2$, the current will

Mark only one oval.

- Be reduced by half
- Be doubled
- Be four times as high
- Be reduced to one fourth

29. 21. The time constant of a series R-C circuit is given by

Mark only one oval.

- R/C
- RC²
- RC
- R²C

30. 22. 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

31. 23. The r.m.s. value of a sinusoidal A.C. current is equal to its value at an angle of _____ degrees.

Mark only one oval.

- 90
- 60
- 45
- 30

32. 24. 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

33. 25. Power factor of electric bulb is

Mark only one oval.

- Zero
- Lagging
- Leading
- Unity

34. 26. Ohm is unit of all of the following except

Mark only one oval.

- Inductive reactance
- Capacitive reactance
- Resistance
- Capacitance

35. 27. Fleming's left hand rule may be applied to

Mark only one oval.

- Motor
- Generator
- Transformer
- All of the above

36. 28. What is the unit of magnetic flux density

Mark only one oval.

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

37. 29. Identify which of the following is the unit of magnetic flux density?

Mark only one oval.

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

38. 30. If two conductors carrying currents in opposite direction are placed parallel to each other then the magnetic field set up by the conductors

Mark only one oval.

- Attract each other
- Repels each other
- Perpendicular to each other
- Parallel to each other

39. 31. Permanent magnet are manufactured by

Mark only one oval.

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

40. 32. Air gap has _____ reluctance as compared to iron or steel path

Mark only one oval.

- little
- lower
- higher
- zero

41. 33. Fleming's left hand rule is used to find

Mark only one oval.

- direction of magnetic field due to current carrying conductor
- direction of force on a current carrying conductor in a magnetic field
- direction of flux in a solenoid
- polarity of a magnetic pole

42. 34. Which of the following is not a unit of flux?

Mark only one oval.

- Maxwell
- Telsa
- Weber
- All of the above

43. 35. Susceptibility is positive for

Mark only one oval.

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

44. 36. The uniform magnetic field is

Mark only one oval.

- the field of a set of parallel conductors
- the field in which all lines of magnetic flux are parallel and equidistant
- the field of a single conductor
- none of the above

45. 37. The unit of magnetic flux is

Mark only one oval.

- Henry
- weber
- ampereturn/weber
- ampere/metre

46. 38. The unit of retentivity is

Mark only one oval.

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

47. 39. Reciprocal of reluctance is

Mark only one oval.

- reluctivity
- permeance
- permeability
- susceptibility

48. 40. Which is not a part of DC machine

Mark only one oval.

- Yoke
- Commutator
- Armature
- Breather

49. 41. A transformer transforms _____

Mark only one oval.

- voltage
- current
- power
- frequency

50. 42. Unit for quantity of electricity is

Mark only one oval.

- ampere-hour
- watt
- joule
- coulomb

51. 43. 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

52. 44. The fuse blows off by

Mark only one oval.

- burning
- arcing
- melting
- none of the above

53. 45. 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

54. 46. Circuit breakers work

Mark only one oval.

- constantly
- only once
- when there is resistance
- when there is magnetic field

55. 47. Miniature circuit breaker is a small

Mark only one oval.

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

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. For the single phase 2-wire system, the maximum voltage between the outer wires and earth is _____

Mark only one oval.

- $V/\sqrt{2}$
- $\sqrt{2}V$
- V
- $2V$

58. 50. 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

59. 51. The most suitable practical value of primary distribution is?

Mark only one oval.

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

60. 52. The frequency of domestic power supply in India is

Mark only one oval.

- 200 Hz
- 100 Hz
- 60 Hz
- 50 Hz

61. 53. Full form of MCB

Mark only one oval.

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

62. 54. DC machine is a

Mark only one oval.

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

63. 55. Which of the following is/are the advantages of carbon brush over the copper brush?

Mark only one oval.

- They are not hard as copper brush
- In case of any sparking they will be less damaged than copper brushes
- They are self lubricating in nature
- All of the above

64. 56. 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

65. 57. A DC generator without commutator is a

Mark only one oval.

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

66. 58. 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

67. 59. The emf induced in the dc generator armature winding is

Mark only one oval.

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

68. 60. 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

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