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

Course Name - -Electrical Technology Course Code - DCSE206

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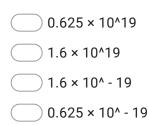
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Answer all the questions. Each question carry one mark.

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



10. 2. Unit of resistance is

Mark only one oval.

Mho

Ohm

- 🕖 Farad
- Henry
- 11. 3. One volt is the same as

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- one joule/coulomb
- one coulomb/joule
- One coulomb
- one joule
- 12. 4. Which, among the following is a unit for resistivity?

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

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

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

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Current

Power is proportional to current only

Energy

- Resistance
- 15. 7. A battery converts_____

- 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?

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- 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?

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

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

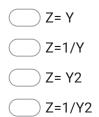
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lags,45

- leads,90
- leads,45
- 20. 12. The voltage applied across an R-L circuit is equal to ____ of VR and VL .

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?



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

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

25. 17. Pure inductive circuit

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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

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\frown	Dook	value
\square	геак	value

Average value

📃 RMS value

- Zero
- 27. 19. The frequency of an alternating current is

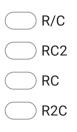
- The speed with which the alternator runs
- The number of waves passing through a point in one second
- The number of cycles generated in one minute
- The number of electrons passing through a point in one second

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.



30. 22. A heater is rated as 230 V, 10 kW, A.C. The value 230 V refers to

- 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.

32. 24. Power factor of an inductive circuit is usually improved by connecting capacitor to it in

Mark only one oval.

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

33. 25. Power factor of electric bulb is

Mark only one oval.

Zero

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

- Weber
- 🔵 Tesla
- Weber/m
- Weber-1

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

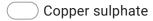
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 30. If two conductors carrying currents in opposite direction are placed parallel to each other then the magnetic field set up by the conductors

Mark only one oval.

- Repels each other
- Perpendicular to each other
- Parallel to each other
- 39. 31. Permanent magnet are manufactured by



- lron and cobalt
- Cobalt and nickel

40. 32. Air gap has_____reluctance as compared to iron or steel path

Mark only one oval.

\square	\supset	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

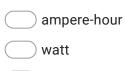
49. 41. A transformer transforms _____

Mark only one oval.

_____ voltage

- Current
- ____ power
- frequency
- 50. 42. Unit for quantity of electricity is

Mark only one oval.



- ____ joule
- ____ coulomb
- 51. 43. The generating voltage and frequency in India is about?

- 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

- 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 _____



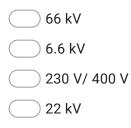
- _____√2V

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.



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

- ____ 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?



- 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

- 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.

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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