

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

Course Name - --Physics II

Course Code - DCSE202

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Answer all the questions. Each question carry one mark.

9. 1. A particle is thrown vertically upward with a velocity 40 ms^{-1} from the ground. It will reach the ground after

Mark only one oval.

- 8 s
- 4 s
- 20 s
- 16 s

10. 2. Magnitude of displacement from initial position to final position is

Mark only one oval.

- straight line
- curved line
- circle
- none of these

11. 3. Displacement is a

Mark only one oval.

- scalar quantity
- vector quantity
- Derived quantity
- none of these

12. 4. SI unit for force is

Mark only one oval.

- Kilograms
- Newton
- Joules
- Acceleration

13. 5. "Energy can neither be created nor be destroyed, but it can be changed from one form to another", this law is known as

Mark only one oval.

- kinetic energy
- potential energy
- conservation of energy
- conservation principle

14. 6. Momentum is conserved in

Mark only one oval.

- an elastic collision of two balls
- an inelastic collision of two balls
- the absence of an external force
- all of these

15. 7. A gun recoiling when it is fired is an example of

Mark only one oval.

- conservation of momentum
- conservation of angular momentum
- conservation of energy
- none of these

16. 8. A car traveling at a speed of 40 km/hr increases its speed to 80 km/hr. As a result its kinetic energy increases

Mark only one oval.

- 2 times
 4 times
 8 times
 none of these

17. 9. What happens to the body on which work is done

Mark only one oval.

- it loses energy
 it gains energy
 no change in the energy
 first it loses then it gain

18. 10. A mass is revolving in a circle which is in the plane of the paper. The direction of angular acceleration

Mark only one oval.

- upward to the radius
 towards the radius
 tangential
 at right angle to angular velocity

19. 11. When a body falls freely under gravity, then the work done by the gravity is

Mark only one oval.

positive

negative

zero

infinity

20. 12. The commercial unit of Energy is

Mark only one oval.

Watt

Watt-hour

Kilowatt-hour

Kilowatt

21. 13. Joule/second is related to

Mark only one oval.

Watt

Newton

Pascal

Torr

22. 14. In order to do work, energy is

Mark only one oval.

- transferred or converted
- used up
- lost
- lost or transferred

23. 15. Which of the following processes requires the most work

Mark only one oval.

- A person holds a 1kg weight stationary with outstretched arms
- A person lifts a 1kg weight 1m off the floor
- A person lifts a 10kg weight 1m off the floor
- A 10kg weight rests on a table

24. 16. What are the units of power

Mark only one oval.

- Horsepower
- Joules per second
- Watts
- all the choices are correct

25. 17. Unit of electric charge is

Mark only one oval.

- Coulomb
- Coulomb/sec
- Volt
- None of these

26. 18. The resistance of two lamps connected in a series across a battery is in the ratio 4:5. Their power will be in the ratio

Mark only one oval.

- 4:5
- 5:4
- 16:25
- 25:16

27. 19. An electric heater is rated 1100W at 220V. The amount of energy consumed in kilowatt-hr by it in 4 hour is

Mark only one oval.

- 2.2
- 4.4
- 6.2
- 2.1

28. 20. Least current will flow through

Mark only one oval.

- 25 ohm resistor
- 5 ohm resistor
- 15 ohm resistor
- 18 ohm resistor

29. 21. A circuit contains two equal resistances in parallel

Mark only one oval.

- current is same in both
- large current flows in larger resistor
- potential difference across each is same
- smaller resistance has smaller conductance

30. 22. In superconductivity the conductivity of a material becomes

Mark only one oval.

- Zero
- Finite
- Infinite
- None of these

31. 23. In order to increase range of ammeter, value of shunt resistance is

Mark only one oval.

- increased
- decreased
- unchanged
- zero

32. 24. An ammeter should have resistance

Mark only one oval.

- infinite
- very large
- very low
- none of these

33. 25. Heating effect of electric current is used in

Mark only one oval.

- electric kettle
- fan
- freezer
- TV

34. 26. Current produces magnetic effect due to its

Mark only one oval.

- mechanical energy
- magnetic field
- electrical field
- chemical energy

35. 27. Reciprocal of resistance is called

Mark only one oval.

- transmission
- resistivity
- inspection
- conductance

36. 28. Thermocouple is source of current that converts heat energy to

Mark only one oval.

- chemical energy
- mechanical energy
- solar energy
- electrical energy

37. 29. Current-voltage graph of ohmic devices is a

Mark only one oval.

- linear graph
- non-linear graph
- parabolic graph
- hyperbola graph

38. 30. Heat produced by current in wire during 't' time is

Mark only one oval.

- $H = I^2R$
- $H = IRt$
- $H = I^2t$
- $H = I^2Rt$

39. 31. Resistances used in circuit of Wheatstone bridge are

Mark only one oval.

- 2
- 3
- 4
- 5

40. 32. Sunlight is directly converted into electrical energy by using

Mark only one oval.

- cells
- solar cells
- electric generator
- electrical energy

41. 33. When condition $R_1/R_2 = R_3/R_4$ is satisfied, current in galvanometer of Wheatstone bridge is

Mark only one oval.

- 1
- 0
- minimum
- Maximum

42. 34. Filament bulbs are best examples of the

Mark only one oval.

- non-ohmic devices
- resistive devices
- ohmic devices
- electric devices

43. 35. "Sum of all currents meeting at a point is zero", stated law is

Mark only one oval.

- Kirchhoff's first law
- Kirchhoff's second law
- Kirchhoff's third law
- Kirchhoff's fourth law

44. 36. No force acts on a current carrying conductor when it is placed

Mark only one oval.

- perpendicular to the magnetic field
- parallel to the magnetic field
- far away from the magnetic field
- inside a magnetic field

45. 37. Which instrument is used for converting electrical energy into mechanical energy

Mark only one oval.

- Electric generator
- Electric motor
- Electric iron
- Electric oven

46. 38. A fuse wire is

Mark only one oval.

- a conductor
- an insulator
- a semi-conductor
- made of any material

47. 39. Lenz's law is based on

Mark only one oval.

- charge
- mass
- momentum
- energy

48. 40. The SI unit of self-inductance is

Mark only one oval.

- Gauss
- Henry
- Tesla
- None of these

49. 41. The force on a conductor of length l carrying current i , placed perpendicular to a uniform magnetic field B is

Mark only one oval.

- zero
- iB/l
- iBl
- Bl/i

50. 42. Who has stated the Right hand Thumb Rule?

Mark only one oval.

- Orsted
- Fleming
- Einstein
- Maxwell

51. 43. The magnetic field inside a solenoid is

Mark only one oval.

- strong at N pole and weak at S pole
- strong at S pole and weak at N pole
- uniform throughout
- zero

52. 44. What is the unit of magnetic field?

Mark only one oval.

- Tesla
- Faraday
- Newton
- Newton / meter

53. 45. A semiconductor has generally valence electrons.

Mark only one oval.

- 2
- 3
- 4
- 5

54. 46. When a pure semiconductor is heated, its resistance

Mark only one oval.

- Goes up
- Goes down
- Remains the same
- Can't say

55. 47. Addition of pentavalent impurity to a semiconductor creates many

Mark only one oval.

- Free electrons
- Holes
- Valence electrons
- Bound electrons

56. 48. Which of the following is a semi-conductor

Mark only one oval.

- Diamond
- Arsenic
- Phosphorous
- Gallium arsenide

57. 49. A semiconductor has.... temperature co-efficient of resistance.

Mark only one oval.

- Zero
- Positive
- Negative
- None of these

58. 50. In semiconductor the forbidden energy gap lies

Mark only one oval.

- Just below the conduction band
- Just above the conduction band
- Either above or below the conduction band
- Between the valence band and conduction band

59. 51. Bridge rectifier is an alternative for

Mark only one oval.

- Full wave rectifier
- Peak rectifier
- Half wave rectifier
- None of the mentioned

60. 52. A simple diode rectifier has 'ripples' in the output wave which makes it unsuitable as a DC source. To overcome this one can use

Mark only one oval.

- A capacitor in series with a the load resistance
- A capacitor in parallel to the load resistance
- Both of the mentioned situations will work
- None of the mentioned situations will work

61. 53. The depletion region with in a p-n junction is reduced when the junction has

Mark only one oval.

- Zero bias
- Forward bias
- Reverse bias
- All of these

62. 54. A silicon p-n junction diode in forward biased condition has a voltage drop closer to

Mark only one oval.

- 0.1 V
- 0.7 V
- 1.7 V
- 2.1 V

63. 55. The arrow direction in diode symbol indicates

Mark only one oval.

- Direction of electron flow
- Direction of hole flow
- Opposite to the direction of hole flow
- None of these

64. 56. Avalanche breakdown in a diode occurs when

Mark only one oval.

- Potential barrier is reduced to zero
- Forward electric current exceeds certain value
- Reverse bias exceeds a certain value
- None of these

65. 57. In He-Ne laser neon atoms get energy

Mark only one oval.

- on collision with He atoms
- from chemical reactions
- from electrical pumping
- from optical pumping

66. 58. In lasing action, the spontaneous emission does not depend on

Mark only one oval.

- the number of atom present in excited state
- the intensity of incident light
- both of them
- none of these

67. 59. The wavelength of of He-Ne laser is

Mark only one oval.

632.8 nm

600 nm

532.8 nm

500 nm

68. 60. Which process gives the laser its special properties as an optical source

Mark only one oval.

Dispersion

Stimulated absorption

Spontaneous emission

Stimulated emission

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