

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. What are the units of power *

Mark only one oval.

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

10. 2. In a He-Ne laser, the laser transition takes place in *

Mark only one oval.

- He only
- Ne only
- Ne first, then in He
- He first, then in Ne

11. 3. A semiconductor has generally valence electrons. *

Mark only one oval.

- 2
- 3
- 4
- 5

12. 4. Heat produced by current in wire during 't' time is *

Mark only one oval.

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

13. 5. 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

14. 6. SI unit for force is *

Mark only one oval.

- Kilograms
 Newton
 Joules
 Acceleration

15. 7. Which of the following is a semi-conductor *

Mark only one oval.

- Diamond
 Arsenic
 Phosphorous
 Gallium arsenide

16. 8. 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

17. 9. 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

18. 10. 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

19. 11. Type of x-rays used to detect break in bone is *

Mark only one oval.

- hard
- soft
- both A and B
- moderate

20. 12. Bridge rectifier is an alternative for *

Mark only one oval.

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

21. 13. An ammeter should have resistance *

Mark only one oval.

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

22. 14. 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

23. 15. In characteristic X-ray emission $K\alpha$ line is due to transition of electron from atomic shell *

Mark only one oval.

- L to K
- K to L
- M to K
- M to L

24. 16. 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

25. 17. Lenz's law is based on *

Mark only one oval.

- charge
- mass
- momentum
- energy

26. 18. Reciprocal of resistance is called *

Mark only one oval.

- transmission
- resistivity
- inspection
- conductance

27. 19. The commercial unit of Energy is *

Mark only one oval.

- Watt
- Watt-hour
- Kilowatt-hour
- Kilowatt

28. 20. If the current in the circuit for heating the filament is increased, the cut off wavelength *

Mark only one oval.

- will increase
- will decrease
- will remain same
- will be zero

29. 21. 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

30. 22. 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

31. 23. 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

32. 24. *

The sequences of colored bands in two carbon resistors R_1 and R_2 are

i) brown, green, blue and ii) orange, black, green. $\frac{R_1}{R_2} = ?$

Mark only one oval.

- 4
- 5
- 6
- 7

33. 25. The ratio of He to Ne in a He-Ne laser is of the order of *

Mark only one oval.

- 1:15
- 1:1
- 1:10
- 5:1

34. 26. What is the unit of magnetic field? *

Mark only one oval.

- Tesla
- Faraday
- Newton
- Newton / meter

35. 27. Current-voltage graph of ohmic devices is a *

Mark only one oval.

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

36. 28. *

A wire of resistance 4Ω is stretched to twice its original length, its new resistance is
Mark only one oval.

 8Ω Option 1 1Ω Option 2 16Ω Option 3 12Ω Option 4

37. 29. Displacement is a *

Mark only one oval.

 scalar quantity vector quantity Derived quantity none of these Option 5

38. 30. The process of population inversion is to increase the number of atoms in the *

Mark only one oval.

- excited state
- ground state
- intermediate state
- excited state and ground state

39. 31. Addition of pentavalent impurity to a semiconductor creates many *

Mark only one oval.

- Free electrons
- Holes
- Valence electrons
- Bound electrons

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

Mark only one oval.

- cells
- solar cells
- electric generator
- electrical energy

41. 33. Least current will flow through *

Mark only one oval.

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

42. 34."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

43. 35. In He-Ne laser, the activator atom *

Mark only one oval.

- Helium
- Neon
- Helium and Neon both
- none of these

44. 36. 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

45. 37. "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

46. 38. In order to increase range of ammeter, value of shunt resistance is *

Mark only one oval.

- increased
- decreased
- unchanged
- zero

47. 39. 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

48. 40. X-ray beam can be deflected by *

Mark only one oval.

- a magnetic field
 an electric field
 both magnetic field and electric field
 neither by an electric field nor by a magnetic field

49. 41. The depletion region within a p-n junction is reduced when the junction has *

Mark only one oval.

- Zero bias
 Forward bias
 Reverse bias
 All of these

50. 42. A fuse wire is *

Mark only one oval.

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

51. 43. Current produces magnetic effect due to its *

Mark only one oval.

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

52. 44. When a body falls freely under gravity, then the work done by the gravity is *

Mark only one oval.

- positive
- negative
- zero
- infinity

53. 45. If V be the potential difference between cathode and target (anode) in collide tube *

Mark only one oval.

- $V_{\max} = (hc)/(eV)$
- $V_{\max} = (eV)/h$
- $V_{\max} = (eh)/V$
- $V_{\max} = (hV)/c$

54. 46. 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

55. 47. In order to do work, energy is *

Mark only one oval.

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

56. 48. The wavelength of of He-Ne laser is *

Mark only one oval.

- 632.8 nm
- 600 nm
- 532.8 nm
- 500 nm

57. 49. 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

58. 50. *

Voltage of a device having resistance 5Ω and current 4 A will be

Mark only one oval.

- 10 V
- 15V
- 20V
- 25V

59. 51. Unit of electric charge is *

Mark only one oval.

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

60. 52. Magnitude of displacement from initial position to final position is *

Mark only one oval.

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

61. 53. Which process gives the laser its special properties as an optical source *

Mark only one oval.

- Dispersion
- Stimulated absorption
- Spontaneous emission
- Stimulated emission

62. 54. When a pure semiconductor is heated, its resistance *

Mark only one oval.

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

63. 55. Resistances used in circuit of Wheatstone bridge are *

Mark only one oval.

- 2
- 3
- 4
- 5

64. 56. 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

65. 57. Light which has a wide band of wavelength is called *

Mark only one oval.

- coherent
- incoherent
- infrared
- microwave

66. 58. A semiconductor has.... temperature co-efficient of resistance. *

Mark only one oval.

- Zero
- Positive
- Negative
- None of these

67. 59. Filament bulbs are best examples of the *

Mark only one oval.

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

68. 60. In superconductivity the conductivity of a material becomes *

Mark only one oval.

- Zero
- Finite
- Infinite
- None of these

69. 61. 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

70. 62. 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

71. 63. 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

72. 64. Joule/second is related to

Mark only one oval.

- Watt
- Newton
- Pascal
- Torr

73. 65. Heating effect of electric current is used in

Mark only one oval.

- electric kettle
- fan
- freezer
- TV

74. 66. Thermocouple is source of current that converts heat energy to

Mark only one oval.

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

75. 67. 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

76. 68. Which instrument is used for converting electrical energy into mechanical energy

Mark only one oval.

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

77. 69. The SI unit of self-inductance is

Mark only one oval.

- Gauss
- Henry
- Tesla
- None of these

78. 70. Who has stated the Right hand Thumb Rule?

Mark only one oval.

- Orsted
- Fleming
- Einstein
- Maxwell

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