

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - PHYSICS II

Course Code - DCE 202/ DEE 202/ DME 202/ DECE 202/ DCSE 202

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Answer all the questions. Each question carry one mark.

9. 1. Magnitude of displacement from initial position to final position is the

Mark only one oval.

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

10. 2. A particle is thrown vertically upward with a velocity 40 m/s from the ground. It will reach the ground after

Mark only one oval.

- 8s
- 4s
- 12s
- 16

11. 3. A boy of mass 50 kg runs under the action of a force 100 N, his acceleration would be

Mark only one oval.

5000 m/s²

500 m/s²

20 m/s²

2 m/s²

12. 4.

Speed of truck is 40 m s⁻¹, after 10 seconds its speed decreases to 20 m s⁻¹, its acceleration is

Mark only one oval.

-1 m s⁻¹

Option 1

-2 m s⁻¹

Option 2

-4 m s⁻¹

Option 3

-5 m s⁻¹

Option 4

13. 5. A pendulum of length L supporting mass M swings back and forth with time period P . If the mass is doubled, the new time period is

Mark only one oval.

 $\frac{1}{\sqrt{2}}P$

Option 1

P

 $\sqrt{2}P$

Option 3

2P

14. 6. Moment of inertia of a thin uniform ring of mass M and radius R about an axis passing through its centre and perpendicular to its plane is

Mark only one oval.

 $\frac{1}{2} MR^2$

Option 1

 MR^2

Option 2

 $\frac{3}{2} MR^2$

Option 3

 $2 MR^2$

Option 4

15. 7. A radio set of 60 watts runs for 50 hours. Consumption of electrical energy by the radio is

Mark only one oval.

2 kWh

3 kWh

4 kWh

6 kWh

16. 8. A heavy truck has more momentum than a passenger car moving at the same speed because the truck

Mark only one oval.

- has greater mass
- has greater speed
- is not streamlined
- has a large wheelbase

17. 9. The commercial unit of energy is

Mark only one oval.

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

18. 10. The energy possessed by a body due to its position is called

Mark only one oval.

- kinetic Energy
- potential Energy
- mechanical Energy
- electrical Energy

19. 11. 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

20. 12. 1 Horse Power (HP) = _____ Watt

Mark only one oval.

- 446
 746
 647
 776

21. 13. A wire of resistance 4Ω is stretched to twice its original length. Its new resistance is

Mark only one oval.

- 8Ω
 1Ω
 16Ω
 12Ω

22. 14. Current-voltage graph of Ohmic devices is a

Mark only one oval.

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

23. 15. A galvanometer in series with a high resistance is called

Mark only one oval.

- an ammeter
- a voltmeter
- a watt-meter
- None of these

24. 16. Electromotive force of a battery can be defined as

Mark only one oval.

- $E = IR$
- $E = IR + I$
- $E = IR + r$
- $E = IR + Ir$

25. 17. When a pure semiconductor is heated, its resistance

Mark only one oval.

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

26. 18. A doped semiconductor is also known as

Mark only one oval.

- Intrinsic semiconductor
- Extrinsic semiconductor
- Diffused semiconductor
- None of these

27. 19. The wavelength of He-Ne laser is

Mark only one oval.

- 632.8 nm
- 532.8 nm
- 650 nm
- 500 nm

28. 20. Rate of flow of charge through cross-sectional area is known as

Mark only one oval.

- current
- voltage
- speed
- acceleration

29. 21. 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

30. 22. A carbon resistor is marked in colours bands of red, black, orange and silver. The resistance of resistor is

Mark only one oval.

$$20 \times 10^3 \pm 10\% \Omega$$

Option 1

$$20 \times 10^2 \pm 10\% \Omega$$

Option 2

$$30 \times 10^3 \pm 10\% \Omega$$

Option 3

$$30 \times 10^3 \pm 5\% \Omega$$

Option 4

31. 23. Resistance of an ammeter is

Mark only one oval.

- infinite
- very large
- very low
- None of these

32. 24. "Sum of all currents meeting at a point is zero", stated law is

Mark only one oval.

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

33. 25. If radius of solid sphere is doubled by keeping its mass constant, then

Mark only one oval.

$$\frac{I_1}{I_2} = \frac{1}{4}$$

Option 1

$$\frac{I_1}{I_2} = \frac{3}{2}$$

Option 2

$$\frac{I_1}{I_2} = \frac{4}{1}$$

Option 3

$$\frac{I_1}{I_2} = \frac{2}{3}$$

Option 4

34. 26. A fuse wire is

Mark only one oval.

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

35. 27. Heat (H) produced by current (I) carrying wire of resistance (R) during time 't' is

Mark only one oval.

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

36. 28. Sunlight is directly converted into electrical energy by using

Mark only one oval.

- cells
- solar cells
- electric generator
- electrical energy

37. 29. Two parallel currents flowing in the same direction

Mark only one oval.

- repel each other
- attract each other
- exert no force each other
- exert torque on each other

38. 30. Equation of thermo emf is $E = at + bt^2$. The notations carry their usual meanings. Value of neutral temperature is

Mark only one oval.

$$-\frac{a}{b}$$

Option 1

$$\frac{a}{b}$$

Option 2

$$-\frac{a}{2b}$$

Option 3

$$\frac{a}{2b}$$

Option 4

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