



PHYSICS

BOOKS - DC PANDEY PHYSICS (HINGLISH)

SOLVED PAPERS 2018

Neet

1. A carbon resistor of $(47 \pm 4.7)k\Omega$ is to be marked with rings of different colours for its

identification. The colour code sequence will be

A. Yellow- Green-Violet-Gold

B. Yellow-Violet-Orange-Silver

C. Violet-Yellow-Orange-Silver

D. Green-Orange-Violet-Gold

Answer: B



Watch Video Solution

2. A set of ' n ' equal resistor, of value of ' R ' each are connected in series to a battery of emf ' E ' and internal resistance ' R '. The current drawn is I . Now, the ' n ' resistors are connected in parallel to the same battery. Then the current drawn from battery becomes

10.1. The value of ' n ' is

A. 20

B. 11

C. 10

D. 9

Answer: C

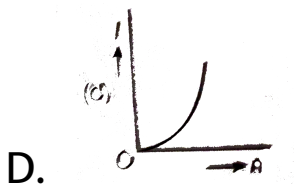
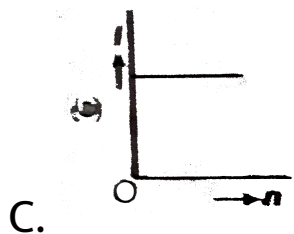
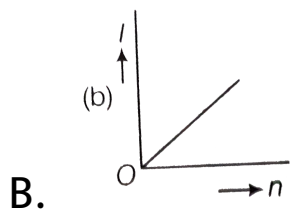
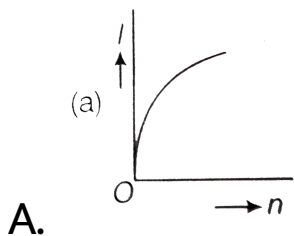


Watch Video Solution

3. A battery consists of a variable number n of identical cells having internal resistance connected in series. The terminals of the battery are short circuited and the current I measured. Which one of the graph below

shows the correct relationship between I and

n ?



Answer: C



Watch Video Solution

4. Unpolarised light is incident from air on a plane surface of a material of refractive index μ . At a particular angle of incidence i , it is found that the reflected and refracted rays are perpendicular to each other. Which of the following options is correct for this situation?

A. $i = \sin^{-1} \left(\frac{1}{\mu} \right)$

B. Reflected light is polarised with its electric vector perpendicular to the plane of incidence.

C. Reflected light is polarised with its electric vector parallel to the plane of incidence.

D. $i = \tan^{-1} \left(\frac{1}{\mu} \right)$

Answer: B



Watch Video Solution

5. In young's double slit experiment the separation d between the slits is 2mm , the wavelength λ of the light used is 5896\AA and distance D between the screen and slits is 100cm . It is found that the angular width of the fringes is 0.20° . To increase the fringe angular width to 0.21° (with same λ and D) the separation between the slits needs to be changed to

A. 2.1 mm

B. 1.9 mm

C. 1.8 mm

D. 1.7 mm

Answer: B



Watch Video Solution

6. An astronomical refracting telescope will have large angular magnification and high angular resolution, when it has an objective lens of

A. large focal length and large diameter

B. large focal length and small diameter

C. small focal length and large diameter

D. small focal length and small diameter

Answer: C



Watch Video Solution

7. The ratio of kinetic energy to the total energy of an electron in a Bohr orbit of the hydrogen atom, is

A. 2: - 1

B. 1: 1

C. 1: 1

D. 1: - 2

Answer: B



Watch Video Solution

8. An electron of mass m with an initial velocity

$\vec{v} = v_0 \hat{i}$ ($v_0 > 0$) enters an electric field

$\vec{E} = -E_0 \hat{i}$ ($E_0 = \text{constant} > 0$) at $t = 0$.

If λ_0 is its de - Broglie wavelength initially, then its de - Broglie wavelength at time t is

A. $\lambda_0 t$

B. $\lambda_0 \left(1 + \frac{eE_0}{mv_0} t \right)$

C. $\frac{\lambda_0}{\left(1 + \frac{eE_0}{mv_0} t \right)}$

D. λ_0

Answer: C



Watch Video Solution

9. For a radioactive material, half-life is 10 minutes. If initially there are 600 number of nuclei, the time taken (in minutes) for the disintegration of 450 nuclei is.

A. 30

B. 10

C. 20

D. 15

Answer: C



Watch Video Solution

10. When the light of frequency $2\nu_0$ (where ν_0 is threshold frequency), is incident on a metal plate, the maximum velocity of electrons emitted is v_1 . When the frequency of the incident radiation is increased to $5\nu_0$, the maximum velocity of electrons emitted from the same plate is v_2 . the ratio of v_1 to v_2 is

A. 4 : 1

B. 1 : 4

C. 1 : 2

D. 2: 1

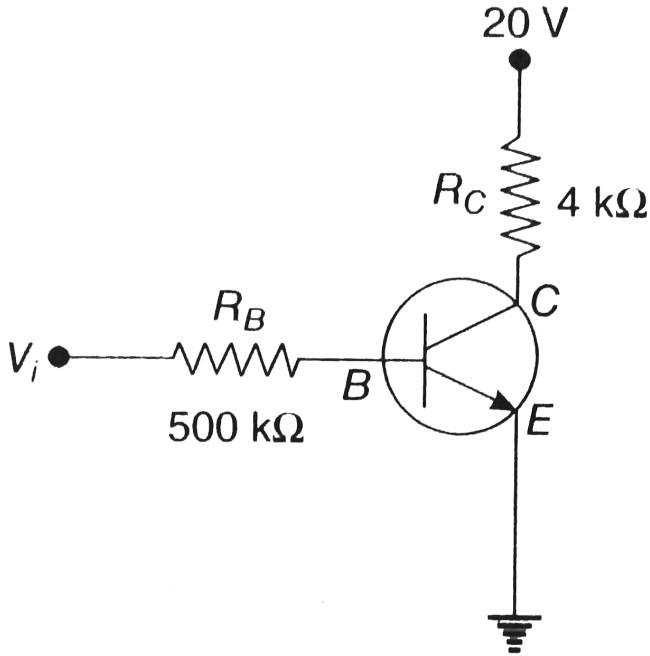
Answer: C



Watch Video Solution

11. In the circuit shown in the figure, the input voltage V_i is $20V$, $V_{BE} = 0$ and $V_{CE} = 0$. The

values of I_B , I_C and β are given by:



- A. $I_B = 20\mu A$, $I_C = 5mA$, $\beta = 250$
- B. $I_B = 25\mu A$, $I_C = 5mA$, $\beta = 200$
- C. $I_B = 40\mu A$, $I_C = 10mA$, $\beta = 250$
- D. $I_B = 40\mu A$, $I_C = 5mA$, $\beta = 125$

Answer: D



Watch Video Solution

12. In a $p - n$ junction diode, change in temperature due to heating

A. does not affect resistance of p-n

junction

B. affects only forward resistance

C. affects only reverse resistance

D. affects the overall V-I characteristics of p-n junction.

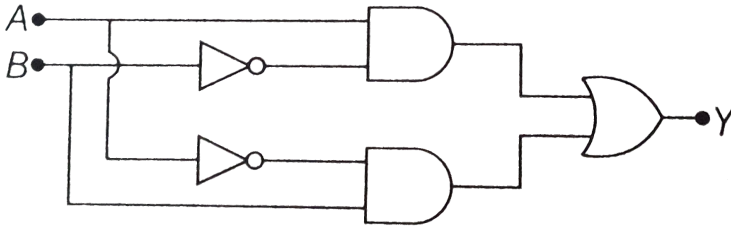
Answer: D



Watch Video Solution

13. In the circuit shown in the figure, the input voltage V_i is 20V, $V_{BE} = 0$ and $V_{CE} = 0$. The

values of I_B , I_C and β are given by



A. $\overline{A} \cdot \overline{B} + A \cdot B$

B. $A \cdot \overline{B} + \overline{A} \cdot B$

C. $\overline{A \cdot B}$

D. $\overline{A + B}$

Answer:



Watch Video Solution

14. An EM wave is propagating in a medium with a velocity $\vec{v} = v\hat{i}$. The instantaneous oscillating electric field of this of em wave is along $+y$ axis. Then the direction of oscillating magnetic field of the EM wave will be along

A. $-y$ - direction

B. $+z$ - direction

C. $-z$ - direction

D. $-x$ - direction

Answer: B



Watch Video Solution

15. The refractive index of the material of a prism is $\sqrt{2}$ and the angle of the prism is 30° . One of the two refracting surfaces of the prism is made a mirror inwards, by silver coating. A beam of monochromatic light entering the prism from the other face will retrace its path (after reflection from the

silvered surface) if its angle of incidence on the prism is

A. 30°

B. 45°

C. 60°

D. zero

Answer: B



Watch Video Solution

16. An object is placed at a distance of 40cm from a concave mirror of focal length 15cm . If the object is displaced through a distance of 20cm towards the mirror, the displacement of the image will be

- A. 30 cm towards the mirror
- B. 36 cm away from the mirror
- C. 30 cm away from the mirror
- D. 36 cm towards the mirror

Answer: B



Watch Video Solution

17. The magnetic potential energy stored in a certain inductor is $25mJ$, when the current in the inductor is $60mA$. This inductor is of inductance

A. 1.389 H

B. 138.88 H

C. 0.138 H

D. 13.89 H

Answer: D



Watch Video Solution

18. An electron falls from rest through a vertical distance h in a uniform and vertically upward directed electric field E . The direction of electric field is now reversed, keeping its magnitude the same. A proton is allowed to fall from rest in it through the same vertical distance h . The time of fall of the electron, in comparison to the time of fall of the proton is

A. 10 times greater

B. 5 times greater

C. smaller

D. equal

Answer: C



View Text Solution

19. The electrostatic force between the metal plate of an isolated parallel plate capacitor C having charge Q and area A , is

- A. proportional to the square root of the distance between the plates
- B. linearly proportional to the distance between the plates
- C. independent of the distance between the plates
- D. inversely proportional to the distance between the plates.

Answer: C



Watch Video Solution

20. A metallic rod of mass per unit length 0.5 kg m^{-1} is lying horizontally on a straight inclined plane which makes an angle of 30° with the horizontal. The rod is not allowed to slide down by flowing a current through it when a magnetic field of induction 0.25 T is acting on it in the vertical direction. The current flowing in the rod to keep it stationary is

A. 14.76 A

B. 5.98 A

C. 7.14 A

D. 11.32 A

Answer: D



Watch Video Solution

21. A thin diamagnetic rod is placed vertically between the poles of an electromagnet. When the current in the electromagnet is switched on, then the diamagnetic rod is pushed up,

out of the horizontal magnetic field. Hence the rod gains horizontal potential energy. the work required to do this comes from

- A. The lattice structure of the material of the rod
- B. the magnetic field
- C. the current source
- D. the induced electric field due to the changing magnetic field

Answer: C





Watch Video Solution

22. An inductor 20mH , a capacitor $100\mu\text{F}$ and a resistor 50Ω are connected in series across a source of emf $V = 10 \sin 314t$. The power loss in the circuit is

A. 2.74 W

B. 0.43 W

C. 0.79 W

D. 1.13 W

Answer: C



Watch Video Solution

23. Current sensitivity of moving coil galvanometer is $5\text{div}/\text{mA}$ and its voltage sensitivity (angular deflection per unit voltage applied) is $20\text{div}/\text{V}$. The resistance of the galvanometer is

A. 250Ω

B. 25Ω

C. 40Ω

D. 500Ω

Answer: A



Watch Video Solution

Aiims

1. A metal wire has a resistance of 35Ω . If its length is increased to double by drawing it, then its new resistance will be

A. 70Ω

B. 140Ω

C. 105Ω

D. 35Ω

Answer: B



Watch Video Solution

2. A half ring of radius R has a charge of λ per unit length. The electric force on $1C$ charged placed at the center is

A. zero

B. $\frac{k\lambda}{R}$

C. $\frac{2k\lambda}{R}$

D. $(k\pi\lambda)R$

Answer: C



Watch Video Solution

3. Positive charge Q is distributed uniformly over a circular ring of radius R . A particle having a mass m and a negative charge q , is

placed on its axis at a distance x from the centre. Find the force on the particle.

Assuming $x \ll R$, find the time period of oscillation of the particle if it is released from there.

A. $\left[\frac{16\pi^3 \epsilon_0 R^3 m}{Qq} \right]^{1/2}$

B. $\left[\frac{8\pi^2 \epsilon_0 R^3}{q} \right]^{1/2}$

C. $\left[\frac{2\pi^3 \epsilon R^3}{3q} \right]^{1/2}$

D. None of these

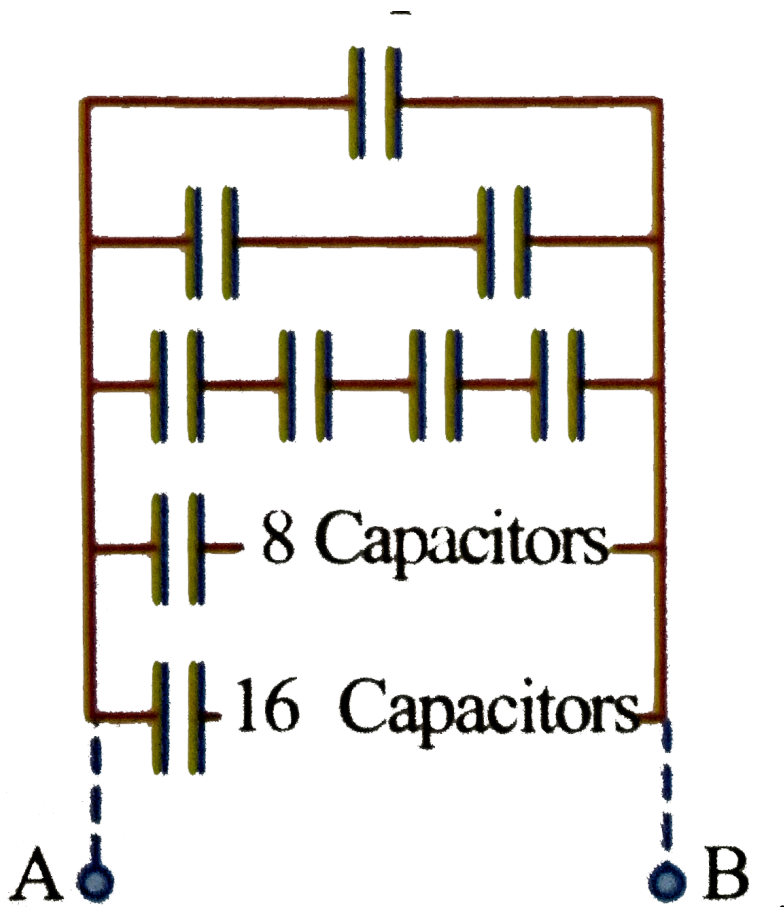
Answer: A



Watch Video Solution

4. An infinite number of identical capacitors each of capacitance $1mF$ are connected as shown in the figure. Then the equivalent

capacitance between A and B is.



A. $1\mu F$

B. $2\mu F$

C. $\frac{1}{2}\mu F$

D. ∞

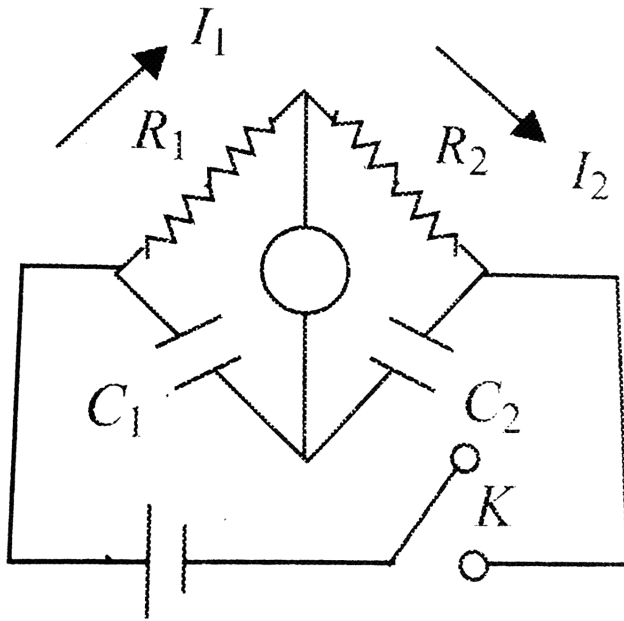
Answer: B



Watch Video Solution

5. In the circuit in fig. If no current flows through the galvanometer when the key k is closed, the bridge is balanced. The balancing

condition for bridge is



- A. $\frac{C_1}{C_2} = \frac{R_1}{R_2}$
- B. $\frac{C_1}{C_2} = \frac{R_2}{R_1}$
- C. $\left(\frac{C_1^2}{C_2^2} = \frac{R_1^2}{R_2^2} \right)$
- D. $\frac{C_1^2}{C_2^2} = \frac{R_2}{R_1}$

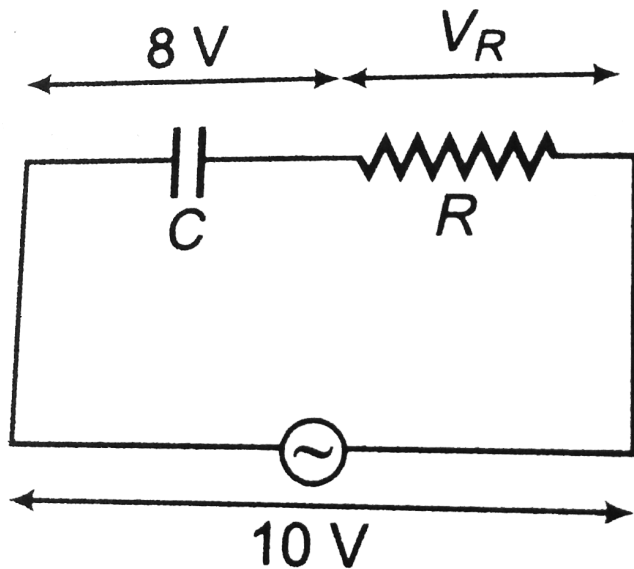
Answer: B



Watch Video Solution

6. In a series $C - R$ circuit shown in figure, the applied voltage is $10V$ and the voltage across capacitor is found to be $8V$. The voltage across R , and the phase difference between current and the applied voltage will

respectively be



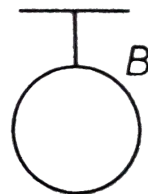
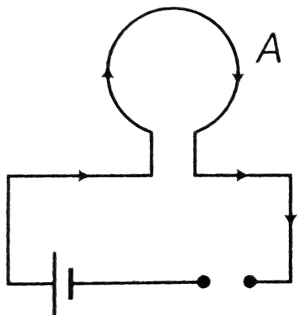
- A. $6V, \tan^{-1}\left(\frac{4}{3}\right)$
- B. $3V, \tan^{-1}\left(\frac{3}{4}\right)$
- C. $6V, \tan^{-1}\left(\frac{5}{3}\right)$
- D. None of these

Answer: A



Watch Video Solution

7. A system S consists of two coils A and B . The coil, A carries a steady current I . While the coil B is suspended nearby as shown in figure. Now, if the system is heated, so as to raise the temperature of two coils steadily, then



A. the two coils shows attraction

B. the two coils shows repulsion

C. there is no change in the position of the
two coils

D. induced current are not possible in coil

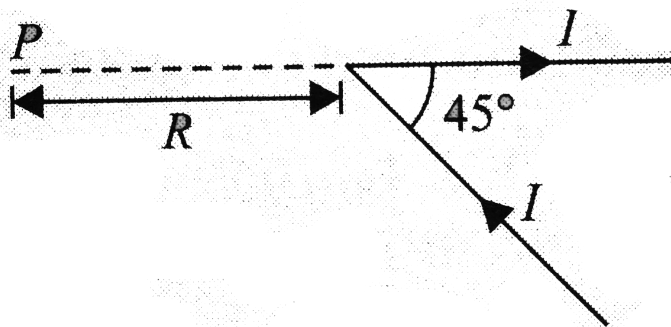
B

Answer: A



Watch Video Solution

8. A long straight wire, carrying current I , is bent at its midpoint to form an angle of 45° . Find the induction of magnetic field at point P, distant R from the point of bending (as shown in)



A.
$$\frac{(\sqrt{2} - 1)\mu_0 I}{4\pi R}$$

B.
$$\frac{(\sqrt{2} + 1)\mu_0 I}{4\sqrt{2}\pi R}$$

C. $\frac{\sqrt{2} - 1 \mu_0 l}{4\sqrt{2}\pi R}$

D. $\frac{(\sqrt{2} + 1) \mu_0 l}{4\sqrt{2}\pi R}$

Answer: A



Watch Video Solution

9. An element $d\vec{l} = dx\hat{i}$ (where $dx = 1\text{cm}$) is placed at the origin and carries a large current $i = 10\text{A}$. What is the magnetic field on the Y-axis at a distance of 0.5m ?

A. $2 \times 10^{-8} \hat{k}T$

B. $4 \times 10^{-8} \hat{k}T$

C. $-2 \times 10^{-8} \hat{k}T$

D. $-4 \times 10^{-8} \hat{k}T$

Answer: B

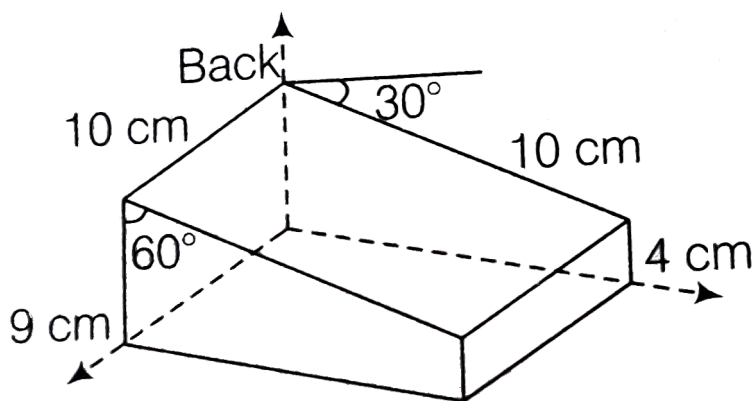


Watch Video Solution

10. The horizontal component of the earth's magnetic field at any place is



11. Consider the following figure, a uniform magnetic field of 0.2 T is directed along the positive X-axis. The magnetic flux through top surface of the figure.



A. zero

B.

C. 0.8 m-Wb

D. -1.8m-Wb

Answer: C



Watch Video Solution

12. An ideal coil of $10\ \Omega$ is connected in series with a resistance of $5\ \Omega$ and a battery of 5V . After 2s , after the connection is made, the current flowing (in ampere) in the circuit is

A. $(1-e)$

B. e

C. e^{-1}

D. $(1 - e^{-1})$

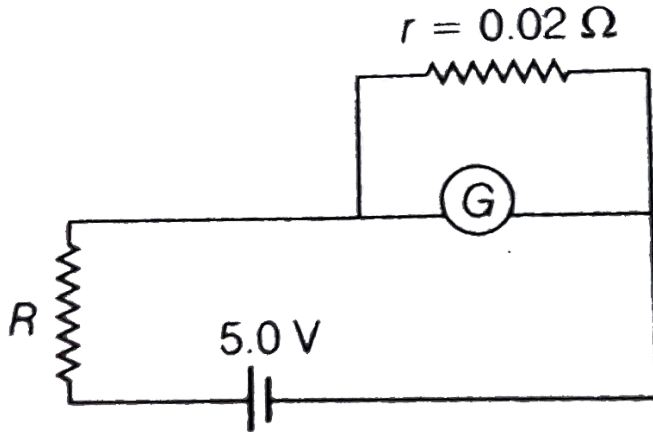
Answer: D



Watch Video Solution

13. In the circuit, shown the galvanometer G of resistance 60Ω is shifted by a resistance $r=0.02\Omega$. The current through R is nearly $1A$. The

value of resistance R (in ohm) is nearly.



- A. 1.00Ω
- B. 5.00Ω
- C. 11.0Ω
- D. 6.0Ω

Answer: C



14. In a circuit L , C and R are connected in series with an alternating voltage source of frequency f . The current lead the voltages by 45° . The value of C is :

A.
$$\frac{1}{2\pi f(2\pi fL + R)}$$

B.
$$\frac{1}{\pi f(2\pi fL + R)}$$

C.
$$\frac{1}{2\pi f(2\pi fL - R)}$$

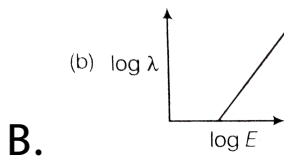
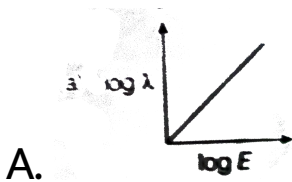
D.
$$\frac{1}{\pi f(2\pi fL - R)}$$

Answer: C



Watch Video Solution

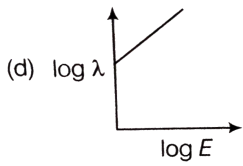
15. The log - log graph between the energy E of an electron and its de - Broglie wavelength λ will be



C.



D.



Answer: C



Watch Video Solution

16. The half life of a radioactive substance is 20 minutes . The approximate time interval $(t_2 - t_1)$ between the time t_2 when $\frac{2}{3}$ of it

had decayed and time t_1 when $\frac{1}{3}$ of it had decay is

A. 14 min

B. 20 min

C. 28 min

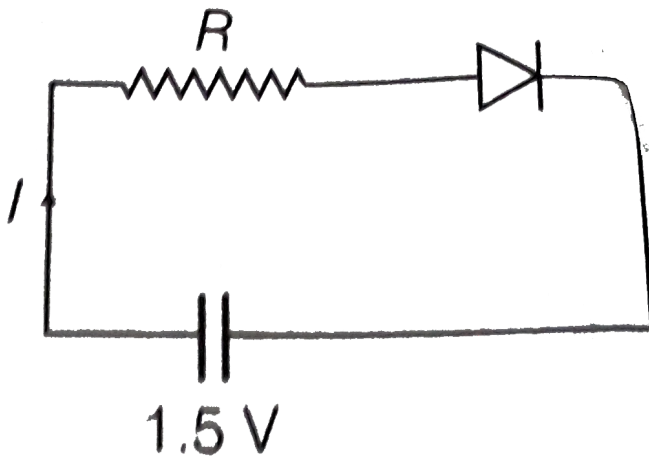
D. 7 min

Answer: B



Watch Video Solution

17. The diode used at a constant potential drop of 0.5 V at all currents and maximum power rating of 100 mW. What resistance must be connected in series diode, so that current in circuit is maximum?



A. 200Ω

B. 6.67Ω

C. 5Ω

D. 15Ω

Answer: C



Watch Video Solution

18. An unpolarised beam of intensity $2a^2$ passes through a thin polaroid. Assuming zero absorption in the polaroid, the intensity of emergent plane polarised light is

A. $2a^2$

B. a^2

C. $\sqrt{2}a^2$

D. $\frac{a^2}{2}$

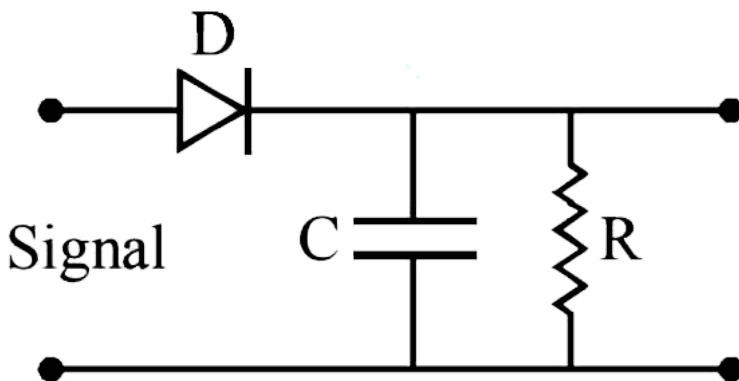
Answer: B



Watch Video Solution

19. A diode detector is used to detect an amplitude modulated wave of 60% modulation by using a condense of capacity

250 picofarad in parallel with a load resistance
100 kilo ohm find the maximum modulated
which could be find the maximum modulated
frequency which could be detected by it



A. 10.32MHz

B. 10.61kHz

C. 5.31MHz

D. 5.31 kHz

Answer: B



Watch Video Solution

20. Red light of wavelength 5400\AA from a distant source modulated wave of 60% modulation by using a condenser of capacity 250 pF in parallel with a load resistance $100k\Omega$. Find the maximum modulated frequency which could be detected by it.

A. 1.89 mm

B. 4mm

C. 1 mm

D. 3mm

Answer: A



View Text Solution

21. A circular loop of radius 0.3 cm lies parallel to a much bigger circular loop of radius 20 cm. The centre of the small loop is on the axis of

the bigger loop. The distance between their centres is 15 cm. If a current of 2.0 A flows through the smaller loop, then the flux linked with bigger loop is

A. $9.1 \times 10^{-11} \text{Wb}$

B. $6 \times 10^{-11} \text{Wb}$

C. $3.3 \times 10^{-11} \text{Wb}$

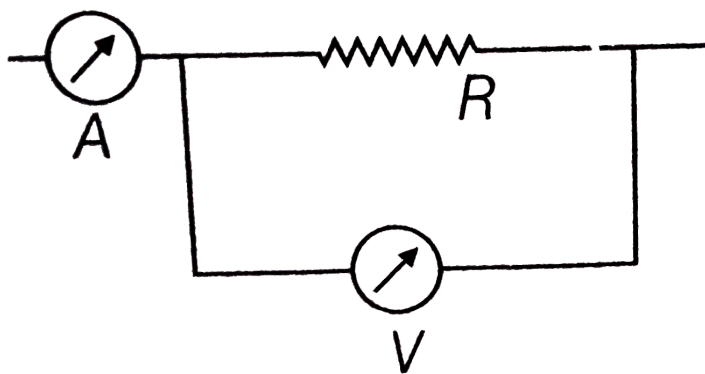
D. $6.6 \times 10^{-9} \text{Wb}$

Answer: A



Watch Video Solution

22. In the adjoining circuit diagram, the readings of ammeter and voltmeter are 2 A and 120 V, respectively. If the value of R is 75Ω , then the voltmeter resistance will be



A. 100Ω

B. 150Ω

C. 300Ω

D. 75Ω

Answer: C



Watch Video Solution

Assertion And Reasons

1. Each of these questions contains two statements Assertion and Reason. Each of these questions also has four alternative

choices, only one of which is the correct answer. You have to select one of codes (a), (b), (c) and (d) given below.

Assertion: Mass of a body decreases slightly when it is negatively charged.

Reason: Charging is due to transfer of electrons.



Watch Video Solution

2. Assertion: A dielectric slab is inserted between plates of an isolated charged

capacitor which remain same.

Reason Charge on an isolated system is conserved.



[Watch Video Solution](#)

3. Assertion: Terminal voltage of a cell is greater than emf of cell during charging of the cell.

Reason: The emf of a cell is always greater than its terminal voltage.



[Watch Video Solution](#)

4. Assertion : Magnetic field interacts with a moving charge and not with a stationary charge.

Reason : A moving charge produces a magnetic field.



Watch Video Solution

5. Assertion: Bulb generally get fused when they are switched on or off.

Reason: When we switch on or off, a circuit current changes in it rapidly.



[Watch Video Solution](#)

6. Assertion: A convex mirror always make a virtual image.

Reason: The ray always diverge after reflection from the convex mirror.



[Watch Video Solution](#)

7. Assertion: if a glass slab is placed in front of one of the slits, then fringe width will decrease.

Reason: Glass slab will produce an additional path difference.



[Watch Video Solution](#)

8. Assertion: If electrons in an atom were stationary, then they would fall into the nucleus.

Reason: Electrostatic force of attraction acts between negatively charged electrons and positive nucleus.



[Watch Video Solution](#)

9. Radioactive nuclei emit β^{-1} particles.

Electrons exist inside the nucleus.



[Watch Video Solution](#)

10. Assertion: Thickness of depletion layer is fixed in all semiconductor devices.

Reason: No free charge carriers are available in depletion layer.



Watch Video Solution

Jipmer

1. What is the magnetic moment of an electron orbiting in a circular orbit of radius r with a

speed v ?

A. $ev\frac{r}{2}$

B. evr

C. $\frac{er}{2v}$

D. None of these

Answer: A



Watch Video Solution

2. If point charges $Q_1 = 2 \times 10^{-7}\text{C}$ and $Q_2 = 3 \times 10^{-7}\text{C}$ are at 30 cm separation, then find electrostatic force between them

A. $2 \times 10^{-3}\text{N}$

B. $6 \times 10^{-3}\text{N}$

C. $5 \times 10^{-3}\text{N}$

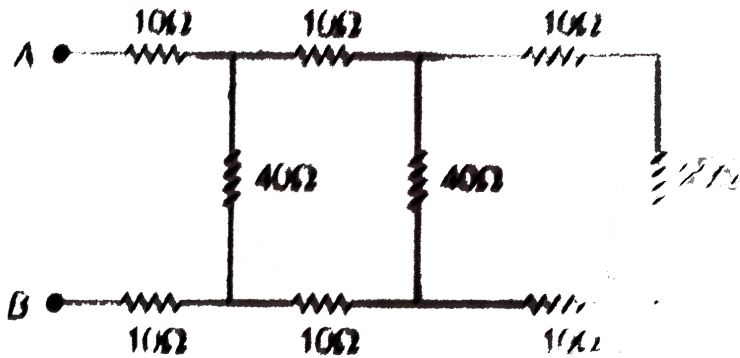
D. $1 \times 10^{-3}\text{N}$

Answer: B



Watch Video Solution

3. Find R_{eq} between A and B.



A. 60Ω

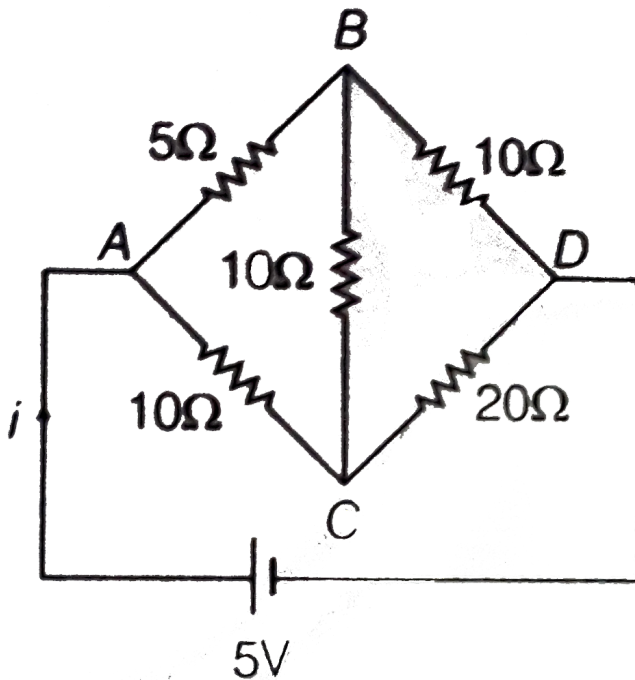
B. 40Ω

C. 70Ω

D. 20Ω

Answer: B

4. Find current (i) in circuit shown in figure.



A. 0.5 A

B. 0.2 A

C. 0.0416666666666667

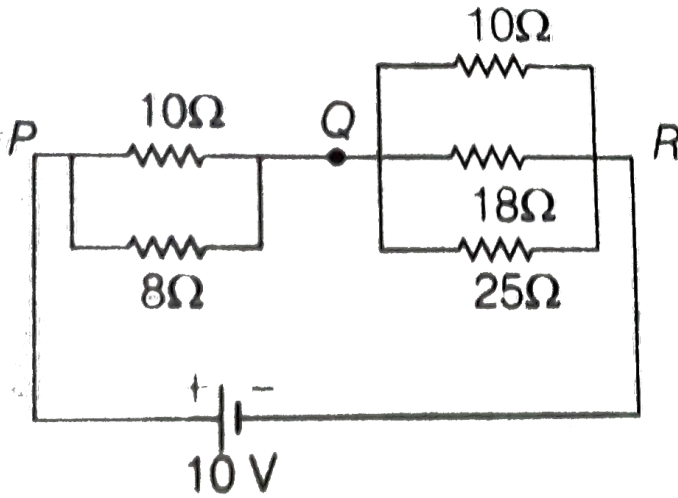
D. 0.0833333333333333

Answer: A



Watch Video Solution

5. Find $V_P - V_Q$ in the circuit shown in figure.



A. 6.68 V

B. 8 V

C. 4.65 V

D. 7 V

Answer: C



Watch Video Solution

6. If a capacitor having capacitance 2F and plate separation of 0.5 cm will have area

A. 1130cm^2

B. 1130m^2

C. 1130km^2

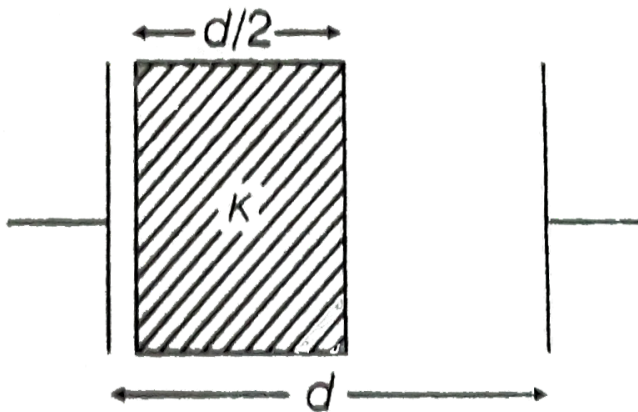
D. none of these

Answer: C



Watch Video Solution

7. Find the capacitance in shown figure



A. $\frac{2KA\epsilon_0}{(K+1)d}$

B. $\frac{2KA\epsilon_0}{d}$

C. $\frac{(K + 1)A\epsilon_0}{2d}$

D. $\frac{2KA\epsilon_0}{(K^2 + 1)d}$

Answer: A



Watch Video Solution

8. If minimum deviation = 30° , then speed of light in shown prism will be

A. $\frac{3}{\sqrt{2}} \times 10^8 m/s$

B. $\frac{1}{\sqrt{2}} \times 10^8 m/s$

C. $\frac{2}{\sqrt{3}} \times 10^8 m / s$

D. $\frac{2KA\varepsilon_0}{(K^2 + 1)d}$

Answer: C



Watch Video Solution

9. A current i is flowing through the wire of diameter (d) having drift velocity of electrons v_d in it. What will be new drift velocity when diameter of wire is made $d/4$?

A. $4v_d$

B. $\frac{v_d}{4}$

C. $16v_d$

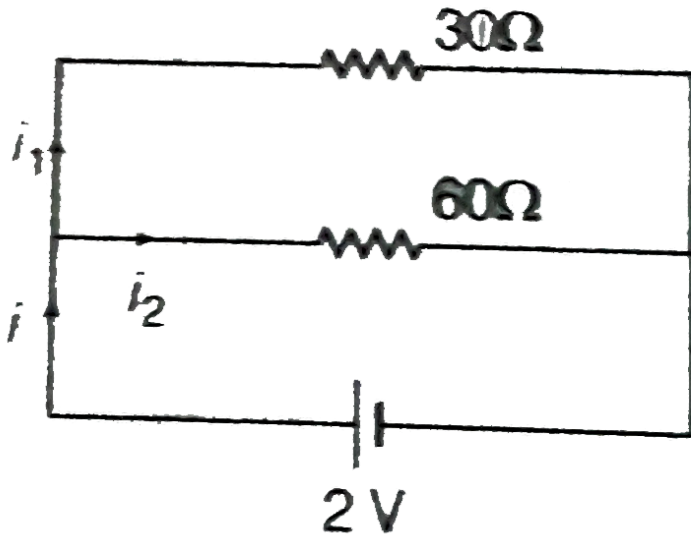
D. $\frac{v_d}{16}$

Answer: C



Watch Video Solution

10. Find i in shown figure.



A. 0.2 A

B. 0.1 A

C. 0.3 A

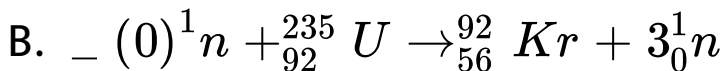
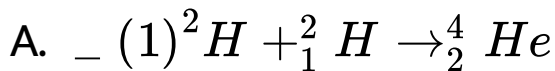
D. 0.4 A

Answer: B



Watch Video Solution

11. Which of the following is fusion process?



C. Uranium decay

D. None of the above

Answer: A



Watch Video Solution

12. A electron e^- is accelerated by V volts experiences a force F , when it enters in a uniform magnetic field. What will the force experienced when it is accelerated by $2V$?

A. $\sqrt{2}F$

B. F

C. $2F$

D. $\frac{F}{2}$

Answer: A



Watch Video Solution

13. An atomic power nuclear reactor can deliver 300MW . The energy released due to fission of each nucleus of uranium atom U^{238} is 170MeV . The number of uranium atoms fissioned per hour will be.

A. 30×10^{25}

B. 4×10^{22}

C. 10×10^2

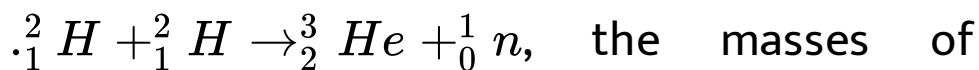
D. 5×10^{15}

Answer: B



Watch Video Solution

14. In the fusion reaction



deuteron, helium and neutron expressed in

amu are 2.015, 3.017 and 1.009 respectively. If

1kg of deuterium undergoes complete fusion,

find the amount of total energy released. 1

$$1 \text{ amu} = 931.5 \text{ MeV} / c^2.$$

A. $9.0 \times 10^{13} \text{ J}$

B. $20 \times 10^5 \text{ J}$

C. $5 \times 10^{16} \text{ J}$

D. $8 \times 10^5 \text{ J}$

Answer: A



Watch Video Solution

15. A prism of crown glass with refracting angle of 5° and mean refractive index = 1.151 is combined with a flint glass prism of refractive index = 1.65 to produce deviation. Find the angle of flint glass.

A. 3.92°

B. 4.68°

C. 5.32°

D. 7.28°

Answer: A



Watch Video Solution

16. Two slits are separated by a distance of 0.5mm and illuminated with light of $\lambda = 6000\text{\AA}$. If the screen is placed 2.5m from the slits. The distance of the third bright image from the centre will be

A. 1.5 mm

B. 3mm

C. 6 mm

D. 9 mm

Answer: D



Watch Video Solution

17. Calculate the dispersive power for crown glass from the given data

$$\mu_v = 1.523 \text{ and } \mu_r = 1.5145.$$

A. 0.01639

B. 1.05639

C. 0.05639

D. 2.05639

Answer: A



Watch Video Solution

18. The force of attractions between two charges $8\mu C$ and $-4\mu C$ is 0.2 N. Find the distance of separation.

A. 1.2 m

B. 12 m

C. 120 m

D. 0.12 m

Answer: A



Watch Video Solution

19. In a L-C circuit, angular frequency at resonance is ω . What will be the new angular frequency when inductor's inductance is made

two times and capacitor's capacitance is made four times?

A. $\frac{\omega}{2} \sqrt{2}$

B. $\frac{\omega}{\sqrt{2}}$

C. 2ω

D. $\frac{2\omega}{\sqrt{2}}$

Answer: A



Watch Video Solution

20. Electron revolving with speed v is producing magnetic field B at center. Find relation between radius of path B and v ?

A. $B \propto v \propto \frac{1}{r}$

B. $B \propto v \propto \frac{1}{r^2}$

C. $B \propto v^2 \propto \frac{1}{r}$

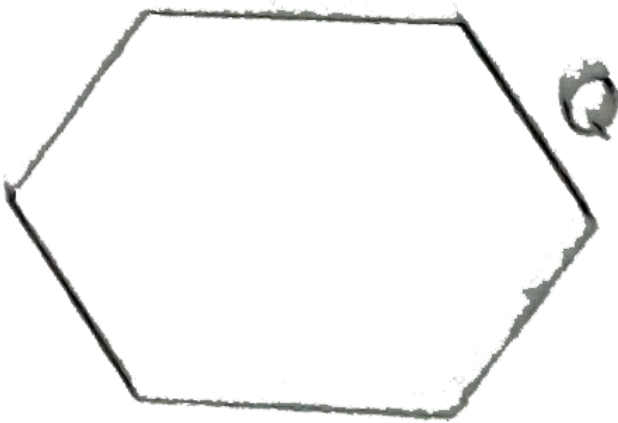
D. $B \propto v^2 \propto \frac{1}{r^2}$

Answer: B



Watch Video Solution

21. A regular hexagone of side a . A wire of length $24 a$ is coiled on that hexagone. If current in hexagone is I , then find the magnetic moment.



A. $6\sqrt{3}la^2$

B. $3\sqrt{3}la^2$

C. $\frac{3\sqrt{3}}{2}la^2$

D. $6la^2$

Answer: A



Watch Video Solution

22. The refractive index of glass is 1.5. The speed of light in glass is

A. 3×10^8 m//s

B. 2×10^8 m/s

C. 1×10^8 m/s

D. 4×10^8 m/s

Answer: B



Watch Video Solution