

The P-V diagram of a system undergo point thermodynamic transformation is shown in figure. The work done on the system in going from $A \rightarrow B \rightarrow C$ is 50 J and 20 cal heat is given to the system. The change in internal energy between A and C is



- (a) 34 J (b) 70 J (c) 84 J (d) 134 J

Q16

A graph is plotted with PV/T on y-axis and mass of the gas along x-axis for different gases. The graph is

- (a) a straight line parallel to x-axis for all the gases
(b) a straight line passing through origin with a slope having a constant value for all the gases
(c) a straight line passing through origin with a slope having different values for different gases
(d) a straight line parallel to y-axis for all the gases

Q17

A conducting square loop of side L and resistance R moves in its plane with a uniform velocity v perpendicular to one of its sides. A magnetic induction B constant in time and space, pointing perpendicular and into the plane at the loop exists everywhere with half the loop outside the field, as shown in figure. The induced emf is

- (a) zero
(b) RvB
(c) vBL/R
(d) vBL



Q18

In a series LCR circuit $R = 200\Omega$ and the voltage and the frequency of the main supply is 220V and 50 Hz respectively. On taking out the capacitance from the circuit the current lags behind the voltage by 30° . On taking out the inductor from the circuit the current leads the voltage by 30° . The power dissipated in the LCR circuit is

- (a) 305 W (b) 210 W
(c) Zero W (d) 242 W

Q19

An electromagnetic wave of frequency $\nu = 3.0$ MHz passes from vacuum into a dielectric medium with permittivity $\epsilon = 4.0$. Then

- (a) wavelength is halved and frequency remains unchanged
(b) wavelength is doubled and frequency becomes half
(c) wavelength is doubled and the frequency remains unchanged
(d) wavelength and frequency both remain unchanged.

Q20

The graph between angle of deviation (δ) and angle of incidence (i) for a triangular prism is represented by



Q21

A circular coil of 16 turns and radius 10cm carries a current of 0.75 A and rest with its plane normal to an external magnetic field of 5.0×10^{-2} T. The coil is free to rotate about its stable equilibrium position with a frequency of 2.0 s^{-1} . Compute the moment of inertia (in kgm^2) of the coil about its axis of rotation.

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elements with an equal number of neutrons in the atomic nucleus

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web isobar are elements that differ in chemical properties but have the same physical property so we can say that isobars are those elements that have a different atomic number but the same mass number in contrast isotopes are those elements having the same atomic number and different mass numbers

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web sep 13 2023 an example of two isotopes and isobars is nickel and iron these both have the same mass number which is 58 whereas the atomic number of nickel is 28 and the atomic number of iron is 26 let us consider an example of 2 things which appear to be the same in colour and in their physical appearance such that we cannot distinguish

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