

Physics : Section-A (Q. No. 1 to 35)

1 The magnetic energy stored in an inductor of inductance $4 \mu\text{H}$ carrying a current of 2 A is :

- (1) $8 \mu\text{J}$ (2) $4 \mu\text{J}$
(3) 4 mJ (4) 8 mJ

2 The half life of a radioactive substance is 20 minutes. In how much time, the activity of substance drops to $\left(\frac{1}{8}\right)^{\text{th}}$ of its initial value?

- (1) 80 minutes (2) 20 minutes
(3) 40 minutes (4) 60 minutes

3 The temperature of a gas is -50°C . To what temperature the gas should be heated so that the rms speed is increased by 3 times?

- (1) 223 K (2) 669°C
(3) 3295°C (4) 3097 K

4 The ratio of frequencies of fundamental harmonic produced by an open pipe to that of closed pipe having the same length is :

- (1) $3 : 1$ (2) $1 : 2$
(3) $2 : 1$ (4) $1 : 3$

5 In a series LCR circuit, the inductance L is 10 mH , capacitance C is $1 \mu\text{F}$ and resistance R is 100Ω . The frequency at which resonance occurs is :

- (1) 1.59 kHz (2) 15.9 rad/s
(3) 15.9 kHz (4) 1.59 rad/s

6 In hydrogen spectrum, the shortest wavelength in the Balmer series is λ . The shortest wavelength in the Bracket series is :

- (1) 16λ (2) 2λ
(3) 4λ (4) 9λ

G5_English]

7 The angular acceleration of a body, moving along the circumference of a circle, is :

- (1) along the axis of rotation
(2) along the radius, away from centre
(3) along the radius towards the centre
(4) along the tangent to its position

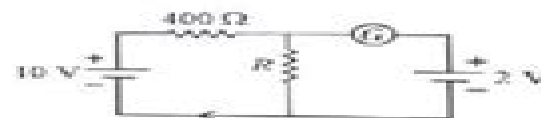
8 An ac source is connected to a capacitor C . Due to decrease in its operating frequency :

- (1) capacitive reactance remains constant
(2) capacitive reactance decreases.
(3) displacement current increases.
(4) displacement current decreases.

9 The errors in the measurement which arise due to unpredictable fluctuations in temperature and voltage supply are :

- (1) Random errors
(2) Instrumental errors
(3) Personal errors
(4) Least count errors

10 If the galvanometer G does not show any deflection in the circuit shown, the value of R is given by :



- (1) 400Ω (2) 200Ω
(3) 50Ω (4) 100Ω

11 The potential energy of a long spring when stretched by 2 cm is U . If the spring is stretched by 8 cm , potential energy stored in it will be :

- (1) $16U$ (2) $2U$
(3) $4U$ (4) $8U$

$$\frac{V}{\lambda} = c$$

$$\frac{12}{\text{km s}^{-1}}$$

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Ensheng Dong



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