

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

1. The magnetic energy stored in an inductor of inductance  $4 \mu\text{H}$  carrying a current of  $2 \text{ A}$  is :  
 (1)  $8 \mu\text{J}$       (2)  $4 \mu\text{J}$   
 (3)  $4 \text{ mJ}$       (4)  $8 \text{ mJ}$

2. The half life of a radioactive substance is 20 minutes. In how much time, the activity of substance drops to  $\left(\frac{1}{16}\right)^{\text{th}}$  of its initial value?  
 (1) 80 minutes      (2) 20 minutes  
 (3) 40 minutes      (4) 60 minutes

3. The temperature of a gas is  $-50^\circ \text{C}$ . To what temperature the gas should be heated so that the rms speed is increased by 3 times?  
 (1)  $223 \text{ K}$       (2)  $669^\circ \text{C}$   
 (3)  $3295^\circ \text{C}$       (4)  $3097 \text{ K}$

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  $10 \text{ mH}$ , capacitance  $C$  is  $1 \mu\text{F}$  and resistance  $R$  is  $100 \Omega$ . The frequency at which resonance occurs is :  
 (1)  $1.59 \text{ kHz}$       (2)  $15.9 \text{ rad/s}$   
 (3)  $15.9 \text{ kHz}$       (4)  $1.59 \text{ rad/s}$

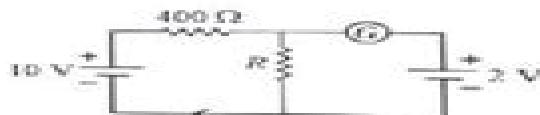
6. In hydrogen spectrum, the shortest wavelength in the Balmer series is  $\lambda_1$ . The shortest wavelength in the Brackett series is :  
 (1)  $16\lambda_1$       (2)  $2\lambda_1$   
 (3)  $4\lambda_1$       (4)  $9\lambda_1$

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

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



(1)  $400 \Omega$       (2)  $200 \Omega$   
 (3)  $50 \Omega$       (4)  $100 \Omega$

10. 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)  $8U$

$$\frac{U}{x} = k$$

$$\frac{U}{2} = k$$

1. Contd...

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