

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  $2 \text{ A}$  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  $\left(\frac{1}{8}\right)^{\text{th}}$  of its initial value?

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

3 The temperature of a gas is  $-50^\circ \text{C}$ . 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  $\lambda$ . The shortest wavelength in the Bracket series is :

- (1)  $16\lambda$  (2)  $2\lambda$   
(3)  $4\lambda$  (4)  $9\lambda$

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

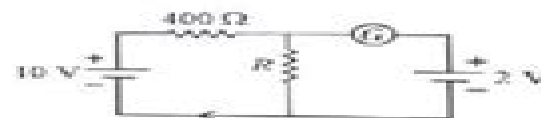
8 An ac source is connected to a capacitor  $C$ . Due to decrease in its operating frequency :

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

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

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

$$\frac{V}{R} = I$$

$$\frac{12}{1000} = I$$

[ Contd...

# 2march 2electrotechnology Question Paper

**Guillaume Favre**



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