

TEST PAPER OF JEE(MAIN) EXAMINATION – 2019
(Held On Wednesday 09th JANUARY, 2019) TIME : 9 : 30 AM To 12 : 30 PM
PHYSICS

1. A current loop, having two circular arcs joined by two radial lines is shown in the figure. It carries a current of 10 A. The magnetic field at point O will be close to :



- (1) 1.0×10^{-5} T (2) 1.5×10^{-5} T
 (3) 1.0×10^{-7} T (4) 1.0×10^{-7} T

Ans. (1)

Sol.



$$\vec{B} = \frac{\mu_0 i}{4\pi} \theta \left[\frac{1}{r_1} - \frac{1}{r_2} \right] \hat{k}$$

$$r_1 = 3 \text{ cm} = 3 \times 10^{-2} \text{ m}$$

$$r_2 = 5 \text{ cm} = 5 \times 10^{-2} \text{ m}$$

$$\theta = \frac{\pi}{4}, i = 10 \text{ A}$$

$$\Rightarrow \vec{B} = \frac{4\pi \times 10^{-7}}{16} \times 10 \left[\frac{1}{3 \times 10^{-2}} - \frac{1}{5 \times 10^{-2}} \right] \hat{k}$$

$$\Rightarrow |\vec{B}| = \frac{\pi}{3} \times 10^{-5} \text{ T}$$

$$\approx 1 \times 10^{-5} \text{ T}$$

2. A gas can be taken from A to B via two different processes ACB and ADB.



When path ACB is used 60 J of heat flows into the system and 30 J of work is done by the system. If path ADB is used work done by the system is 10 J. The heat flow into the system in path ADB is :
 (1) 80 J (2) 20 J (3) 100 J (4) 40 J

Ans. (4)

Sol.



$$\Delta Q_{ACB} = \Delta W_{ACB} + \Delta U_{ACB}$$

$$\Rightarrow 60 \text{ J} = 30 \text{ J} + \Delta U_{ACB}$$

$$\Rightarrow \Delta U_{ACB} = 30 \text{ J}$$

$$\Rightarrow \Delta U_{ADB} = \Delta U_{ACB} = 30 \text{ J}$$

$$\Delta Q_{ADB} = \Delta U_{ADB} + \Delta W_{ADB}$$

$$= 30 \text{ J} + 10 \text{ J} = 40 \text{ J}$$

3. A plane electromagnetic wave of frequency 50 MHz travels in free space along the positive x-direction. At a particular point in space and time, $\vec{E} = 6.3\hat{j}$ V/m. The corresponding magnetic field $\vec{B}$, at that point will be:

(1) $18.9 \times 10^{-8} \hat{k} \text{ T}$ (2) $6.3 \times 10^{-8} \hat{k} \text{ T}$

(3) $2.1 \times 10^{-8} \hat{k} \text{ T}$ (4) $18.9 \times 10^{-8} \hat{k} \text{ T}$

Ans. (3)

Sol. $|\vec{B}| = \frac{|\vec{E}|}{c} = \frac{6.3}{3 \times 10^8} = 2.1 \times 10^{-8} \text{ T}$

and $\vec{E} \times \vec{B} = \hat{c}$

$$\hat{j} \times \vec{B} = \hat{i}$$

$$\vec{B} = \hat{k}$$

$$\vec{B} = |\vec{B}| \hat{k} = 2.1 \times 10^{-8} \hat{k} \text{ T}$$

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