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 :

i = 10A

(1) 1.0×10^{-5} T   (2) 1.5×10^{-7} T

(3) 1.0×10^{-7} T   (4) 1.0×10^{-7} T

Ans. (1)

Sol.

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

$r_1 = 3 \text{ cm} = 3 \times 10^{-2} \text{ m}$
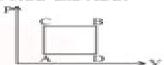
$r_2 = 5 \text{ cm} = 5 \times 10^{-2} \text{ m}$

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

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

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

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

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

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

$= 10 \text{ J} + 30 \text{ J} = 40$ 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, $\vec{E} = 6.3 \hat{j} \text{V/m}$. The corresponding magnetic field $\vec{B}$, at that point will be:

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

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

Ans. (3)

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

and $\hat{E} \times \hat{B} = \hat{C}$

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

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

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

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Thomas Griffiths

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Table of Contents Jee Main 2014 Paper 2 Solutions For Set K

1. Understanding the eBook Jee Main 2014 Paper 2 Solutions For Set K
    - The Rise of Digital Reading Jee Main 2014 Paper 2 Solutions For Set K
    - Advantages of eBooks Over Traditional Books
2. Identifying Jee Main 2014 Paper 2 Solutions For Set K
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Jee Main 2014 Paper 2 Solutions For Set K
    - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Main 2014 Paper 2 Solutions For Set K
    - Personalized Recommendations
    - Jee Main 2014 Paper 2 Solutions For Set K User Reviews and Ratings
    - Jee Main 2014 Paper 2 Solutions For Set K and Bestseller Lists
5. Accessing Jee Main 2014 Paper 2 Solutions For Set K Free and Paid eBooks
    - Jee Main 2014 Paper 2 Solutions For Set K Public Domain eBooks
    - Jee Main 2014 Paper 2 Solutions For Set K eBook Subscription Services
    - Jee Main 2014 Paper 2 Solutions For Set K Budget-Friendly Options

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