

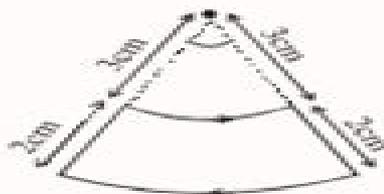
**TEST PAPER OF JEE(MAIN) EXAMINATION – 2019**  
**(Held On Wednesday 09<sup>th</sup> JANUARY, 2019) TIME : 9 : 30 AM To 12 : 30 PM**  
**PHYSICS**

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)  $1.0 \times 10^{-5}$  T                      (2)  $1.5 \times 10^{-5}$  T  
 (3)  $1.0 \times 10^{-7}$  T                      (4)  $1.0 \times 10^{-7}$  T

Ans. (1)



Sol.

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

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

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

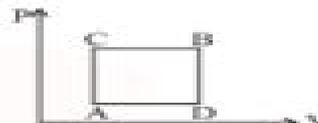
$$\theta = \frac{\pi}{4}, i = 10 \text{ A}$$

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

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

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

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.

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

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

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

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

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

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

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)  $18.9 \times 10^{-8} \hat{k}$  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  $\vec{E} \times \vec{B} = \hat{c}$

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

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

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

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## **Table of Contents Iit Exam Paper 22**

1. Understanding the eBook Iit Exam Paper 22
  - The Rise of Digital Reading Iit Exam Paper 22
  - Advantages of eBooks Over Traditional Books
2. Identifying Iit Exam Paper 22
  - 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 Iit Exam Paper 22
  - User-Friendly Interface
4. Exploring eBook Recommendations from Iit Exam Paper 22
  - Personalized Recommendations

- Iit Exam Paper 22 User Reviews and Ratings
- Iit Exam Paper 22 and Bestseller Lists
- 5. Accessing Iit Exam Paper 22 Free and Paid eBooks
  - Iit Exam Paper 22 Public Domain eBooks
  - Iit Exam Paper 22 eBook Subscription Services
  - Iit Exam Paper 22 Budget-Friendly Options
- 6. Navigating Iit Exam Paper 22 eBook Formats
  - ePub, PDF, MOBI, and More
  - Iit Exam Paper 22 Compatibility with Devices
  - Iit Exam Paper 22 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Iit Exam Paper 22
  - Highlighting and Note-Taking Iit Exam Paper 22
  - Interactive Elements Iit Exam Paper 22
- 8. Staying Engaged with Iit Exam Paper 22
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Iit Exam Paper 22
- 9. Balancing eBooks and Physical Books Iit Exam Paper 22
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Iit Exam Paper 22
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Iit Exam Paper 22
  - Setting Reading Goals Iit Exam Paper 22
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Iit Exam Paper 22
  - Fact-Checking eBook Content of Iit Exam Paper 22

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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