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 ares 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.

$$(3) \cdot 1.0 \times 10^{-7} \text{ T}$$

Ams. (1)



$$\hat{\mathbf{B}} = \frac{\mu_o i}{4\pi} \theta \bigg[\frac{1}{r_i} - \frac{1}{r_e} \bigg] \hat{\mathbf{k}}$$

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

$$r_1 = 5 \text{cm} = 5 \times 10^{-7} \text{ m}$$

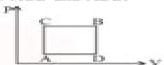
$$\theta = \frac{\pi}{4}$$
, $i = 10$ A

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

$$\Longrightarrow \left| \vec{B} \right| = \frac{\pi}{3} \times 10^{-5} \, T$$

$$\approx 4\times 10^{-5}\,T$$

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



When puth 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 : (2) 20 J (3) 100 J (4) 40 J

Ams. (4)



= 10 J + 30 J = 40 J

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

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

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

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

3. A plane electromagnetic wave of frequency 50 MHz travels in free space along the positive xdirection. At a particular point in space and $\dot{E} = 6.3 i V/m$. The corresponding

magnetic field B, at that point will be:

(4)
$$18.9 \times 10^8 \text{ kT}$$

Sol.
$$|\mathbf{B}| = \frac{|\mathbf{E}|}{C} = \frac{6.3}{3 \times 10^4} = 2.1 \times 10^{-8} \text{ T}$$

and $\hat{\mathbf{E}} \times \hat{\mathbf{B}} = \hat{\mathbf{C}}$
 $\hat{\mathbf{J}} \times \hat{\mathbf{B}} = \hat{\mathbf{I}}$
 $\hat{\mathbf{B}} = \hat{\mathbf{k}}$
 $\hat{\mathbf{B}} = |\mathbf{B}|\hat{\mathbf{B}}| = 2.1 \times 10^{-8} \hat{\mathbf{k}} \text{ T}$

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RD Boyd

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Table of Contents Answer Of Paper Jee Mains 2code K

- 1. Understanding the eBook Answer Of Paper Jee Mains 2code K
 - The Rise of Digital Reading Answer Of Paper Jee Mains 2code K
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Of Paper Jee Mains 2code 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 Answer Of Paper Jee Mains 2code K
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from Answer Of Paper Jee Mains 2code K
 - Personalized Recommendations
 - Answer Of Paper Jee Mains 2code K User Reviews and Ratings
 - Answer Of Paper Jee Mains 2code K and Bestseller Lists
- 5. Accessing Answer Of Paper Jee Mains 2code K Free and Paid eBooks
 - Answer Of Paper Jee Mains 2code K Public Domain eBooks
 - Answer Of Paper Jee Mains 2code K eBook Subscription Services
 - Answer Of Paper Jee Mains 2code K Budget-Friendly Options
- 6. Navigating Answer Of Paper Jee Mains 2code K eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Answer Of Paper Jee Mains 2code K Compatibility with Devices
 - Answer Of Paper Jee Mains 2code K Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Of Paper Jee Mains 2code K
 - Highlighting and Note-Taking Answer Of Paper Jee Mains 2code K
 - Interactive Elements Answer Of Paper Jee Mains 2code K
- 8. Staying Engaged with Answer Of Paper Jee Mains 2code K
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Of Paper Jee Mains 2code K
- 9. Balancing eBooks and Physical Books Answer Of Paper Jee Mains 2code K
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Of Paper Jee Mains 2code K
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Of Paper Jee Mains 2code K
 - $\circ\,$ Setting Reading Goals Answer Of Paper Jee Mains 2code K
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Answer Of Paper Jee Mains 2code K
 - Fact-Checking eBook Content of Answer Of Paper Jee Mains 2code K
 - 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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