

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.



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

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

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

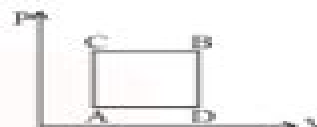
$$\theta = \frac{\pi}{4}, i = 10 \text{ A}$$

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

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

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

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.



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

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

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

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

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

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

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:

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

$$(3) 2.1 \times 10^{-8} \hat{k} \text{ T} \quad (4) 18.9 \times 10^2 \hat{k} \text{ T}$$

Ans. (3)

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

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

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

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

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

Answer Of Paper Jee Mains 2code K

Chao Zhang



Answer Of Paper Jee Mains 2code K:

The Top Books of the Year Answer Of Paper Jee Mains 2code K The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Answer Of Paper Jee Mains 2code K : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Answer Of Paper Jee Mains 2code K : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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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
 - 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
 - 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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