

**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.



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

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

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

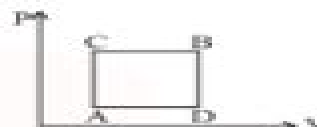
$$\theta = \frac{\pi}{4}, i = 10 \text{ A}$$

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

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

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

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)  $18.9 \times 10^2 \hat{k}$  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  $\vec{E} \times \vec{B} = \hat{c}$

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

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

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

# Answer Of Paper Jee Mains 2code K

**J Dewey**



**Answer Of Paper Jee Mains 2code K:**

## **Answer Of Paper Jee Mains 2code K** Book Review: Unveiling the Power of Words

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web introduction railway signals are a means of communication beyond the range of the voice they may stimulate the eye as

optical signals or the ear as acoustic signals the nature or appearance of a signal is its aspect while its meaning is its indication the most fundamental signals are the hand or mobile signals

**railway semaphore signal wikipedia** - Jul 02 2022

web railway semaphore signal is one of the earliest forms of fixed railway signals this semaphore system involves signals that display their different indications to train drivers by changing the angle of inclination of a pivoted arm semaphore signals were patented in the early 1840s by joseph james stevens and soon became the most widely used