TEST PAPER OF JEE(MAIN) EXAMINATION – 2019

(Held On Wednesday 09th JANUARY, 2019) TIME : 9 : 30 AM To 12 : 30 PM

PHYSICS

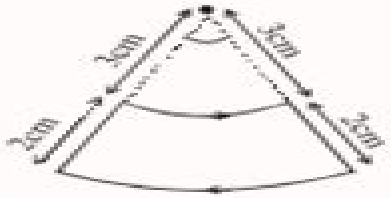
1. A current loop, having two circular arcs joined by two radial lines is shown in the figure. It carries a current of 10 A. The magnetic field at point O will be close to :

(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.



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

$r_1 = 3\text{ cm} = 3\times10^{-2}\text{ m}$

$r_2 = 5\text{cm} = 5\times10^{-2}\text{ m}$

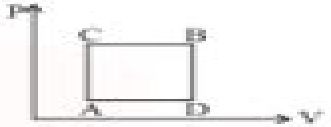
$\theta = \frac{\pi}{4}, i = 10\text{ A}$

$$\Rightarrow \vec{B} = \frac{4\pi\times10^{-7}}{16}\times10\left[\frac{1}{3\times10^{-2}} - \frac{1}{5\times10^{-2}}\right]\hat{k}$$

$$\Rightarrow |\vec{B}| = \frac{\pi}{3}\times10^{-5}\text{T}$$

$$\approx 1\times10^{-5}\text{T}$$

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

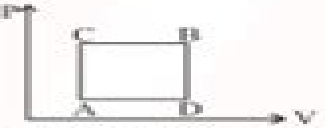


When path ACB is used 60 J of heat flows into the system and 30 J of work is done by the system. If path ADB is used work done by the system is 10 J. The heat Flow into the system in path ADB is :

(1) 80 J (2) 20 J (3) 100 J (4) 40 J

Ans. (4)

Sol.



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

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

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

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

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

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

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

(1) $18.9\times10^{-8}\hat{k}$T (2) $6.3\times10^{-8}\hat{k}$T

(3) $2.1\times10^{-8}\hat{k}$T (4) $18.9\times10^{8}\hat{k}$T

Ans. (3)

Sol. $|B| = \frac{|E|}{C} = \frac{6.3}{3\times10^8} = 2.1\times10^{-8}\text{T}$

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

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

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

$\vec{B} = |B|\hat{B} = 2.1\times10^{-8}\hat{k}$T

Jee Main 2013 Paper

K Morrison

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