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)



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

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

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

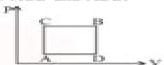
$$\theta = \frac{\pi}{4}$$
, $i = 10$ A

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

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

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

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 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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G Psacharopoulos

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