

# JEE ADVANCED ONLINE MODEL EXAM

22-11-2020

Batch: LT21 SPL/Normal

LT<sub>21S</sub>/M

PHYSICS + CHEMISTRY + MATHEMATICS

Time: 1½hr

Max.Marks:111

## PHYSICS

### Section I - Straight objective type (3, -1)

- The radius of a circular loop is increasing at a constant rate of 2mm/s. The loop is placed in a uniform magnetic field 4T and has 1000 turns, with its plane perpendicular to the field. The instantaneous emf induced when its radius becomes  $\frac{7}{22}$  cm, on the loop is  
A) 0.08V                      B) 0.16V                      C) 0.2V                      D) None of these
- The peak value of AC voltage on a 220V main is  
A)  $240\sqrt{2}$ V                      B)  $230\sqrt{2}$ V                      C)  $220\sqrt{2}$ V                      D)  $200\sqrt{2}$ V
- An intense light source radiates uniformly in all directions. At a distance 5 m from the source, the radiation pressure on absorbing surface is  $9 \times 10^{-8}$  Pa. Find the total average power output  
A)  $8.5 \times 10^7$  W                      B)  $6.5 \times 10^7$  W                      C)  $8.5 \times 10^8$  W                      D)  $6.5 \times 10^8$  W

### Section II- Multiple correct answer type (4, -1, +1)

Full marks : +4 - If only the bubble(s) corresponding to all the correct option (s)

is (are) darkened. Partial Marks: + 1 - For darkening a bubble corresponding to each correct

- In a plane em wave, the electric field oscillates sinusoidally at a frequency of  $3 \times 10^{16}$  Hz and amplitude  $54\text{Vm}^{-1}$ .  
A) The amplitude of oscillating magnetic field will be  $18 \times 10^{-8}$  wb / m<sup>2</sup>  
B) The amplitude of oscillating magnetif field will be  $18 \times 10^{-7}$  wb / m<sup>2</sup>  
C) The wave length of em wave is 1m  
D) The wave length of em waves is 1cm
- Select the correct statements  
A) em waves are tansverse waves  
B) em waves travel with same speed in all media  
C) em waves travel with speed of light in vacuum  
D) em waves are produced by accelerating electron
- A plane emwave of frequency 40 mHz travels in a free space in the x - direction. At some point, at some instant, the electric field E has its maximum value at  $750 \text{ NC}^{-1}$  in the y - direction.  
A) The period of the wave will be  $0.025 \mu\text{s}$   
B) The magnitude and direction of magnetic field will be  $2.5 \mu\text{T}$  in y - direction  
C) The magnitude & direction of magnetic field will be  $2.5 \mu\text{T}$  in z - direction  
D) The angular frequency of em waves will be  $4\pi \times 10^7$  Hz

# Jee Advanced Model Test Papers

**Puja Mehta**



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