

UP-CPMT - 2007

Paper-2

Physics

1. If distance between earth and sun become four times, then time period becomes

- 1) 2 times
- 2) 4 times
- 3) 8 times
- 4) 16 times

2. We wish to see inside an atom. Assuming the atom to have a diameter of 100 pm, this means that one must be able to resolve a width of say 10 pm. If an electron microscope is used, the minimum electron energy required is about

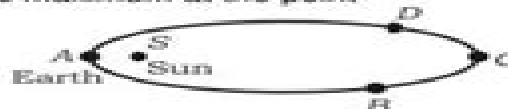
- 1) 15 eV
- 2) 15 keV
- 3) 150 keV
- 4) 15 MeV

3. An air bubble is contained inside water. It behaves as a



- 1) concave lens
- 2) convex lens
- 3) neither convex nor concave
- 4) cannot say

4. The earth moves in an elliptical orbit with the sun S at one of foci as shown in the figure. Its rotational kinetic energy is maximum at the point



- 1) A
- 2) B
- 3) C
- 4) D

5. The power dissipated across resistance R which is connected across a battery of potential V is P. If resistance is doubled, then the power becomes

- 1) $1/2$
- 2) 2
- 3) $1/8$
- 4) 8

6. A Carnot's engine has an efficiency of 50% at sink temperature 50°C . Calculate the

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