

- (c) State two uses of a cathode ray tube. [2]
- (d) Show by equations, the effect on the proton number Z and mass number A of the parent nucleus brought about by the two types of radioactive decay. [2]
- (e) State one industrial use of α , β , and γ radiation. [2]

SECTION II (40 Marks)

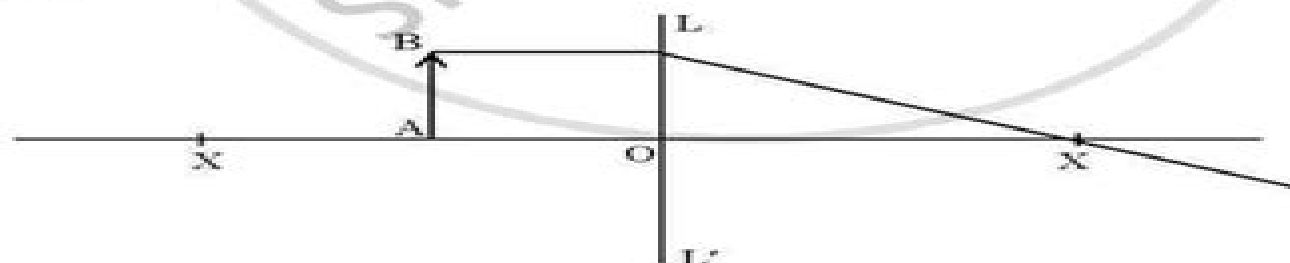
Attempt any four questions from this Section

Question 5

- (a) An engine can pump 30,000 litres of water to a vertical height of 45 metres in 10 minutes. Calculate the work done by the machine and the power. (Density of water = 10^3 kg/m^3 , 1000 litre = 1 m^3 , $g = 9.8 \text{ m/s}^2$). [3]
- (b) 'Renewable sources of energy must be encouraged to meet growing demands of energy'. Give suggestions to support your answer. [3]
- (c) A pulley system has a velocity ratio 5. Draw a neat labelled diagram of the pulley system to lift a load by applying the effort in a convenient direction. Mark the tension in your diagram.
- (i) If the efficiency of the system is 80% find its mechanical advantage.
- (ii) If a load of 10 kgf is pulled up by a distance of 2 m in 10 s, calculate the power developed by the effort (given $g = 10 \text{ m/s}^2$). [4]

Question 6

(a)



- (i) Copy and complete the ray diagram to show the formation of the image of the object AB
- (ii) Name the lens LL' .
- (iii) Name a device in which this principle is used. [3]

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