

ICSE Class 10 Physics Question Paper Solution 2018

PHYSICS (PAPER-1)

SECTION I (40 Marks)

Attempt all questions from this Section

Question 1

- (a) (i) State and define the S.I. unit of power. [2]
(ii) How is the unit horse power related to the S.I. unit of power?
- (b) State the energy changes in the following cases while in use: [2]
(i) An electric iron.
(ii) A ceiling fan.
- (c) The diagram below shows a lever in use: [2]



- (i) To which class of levers does it belong?
(ii) Without changing the dimensions of the lever, if the load is shifted towards the fulcrum what happens to the mechanical advantage of the lever?
- (d) (i) Why is the ratio of the velocities of light of wavelengths 4000\AA and 8000\AA in vacuum 1:1? [2]
(ii) Which of the above wavelengths has a higher frequency?
- (e) (i) Why is the motion of a body moving with a constant speed around a circular path said to be accelerated? [2]
(ii) Name the unit of physical quantity obtained by the formula $\frac{2K}{V^2}$.
Where K: kinetic energy, V: Linear velocity.

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