

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 $4000\text{\AA}$ and $8000\text{\AA}$ 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.

14 Grade12 Physical Science June Question Paper

Camilla Rothe



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Decoding **14 Grade12 Physical Science June Question Paper**: Revealing the Captivating Potential of Verbal Expression

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