

ICSE Class 10 Physics Question Paper Solution 2016

PHYSICS SCIENCE Paper – 1

I. ANALYSIS OF PERFORMANCE

Question 1

- (a) (i) Give an example of a *non-contact force* which is always of attractive nature. [2]
(ii) How does the magnitude of this *non-contact force* on the two bodies depend on the distance of separation between them?
- (b) A boy weighing 40kgf climbs up a stair of 30 steps each 20cm high in 4 minute and a girl weighing 30kgf does the same in 3 minutes. Compare:- [2]
(i) The work done by them.
(ii) The power developed by them.
- (c) With reference to the terms Mechanical Advantage, Velocity Ratio and efficiency of a machine, name and define the term that will not change for a machine of a given design. [2]
- (d) Calculate the mass of ice required to lower the temperature of 300g of water at 40°C to water at 0°C . [2]
(Specific latent heat of ice = 336 J/g , Specific heat capacity of water = $4.2 \text{ J/g}^{\circ}\text{C}$)
- (e) What do you understand by the following statements: [2]
(i) The heat capacity of the body is 60 JK^{-1} .
(ii) The specific heat capacity of lead is $130 \text{ Jkg}^{-1}\text{K}^{-1}$.

Comments of Examiners

- a) Most candidates identified it correctly as gravitational force however some wrote magnetic or electrostatic force. Many identified the inverse relation between force and distance but failed to identify the square relation.
- b) Most candidates failed to convert kgf to newton and from cm to m that resulted in wrong answers. Some showed the working correctly but failed to do the comparison and missed on scoring.
- c) Majority of candidates failed to comprehend this question. They wrote the definitions of M.A., V.R. and efficiency without mentioning V.R. does

Suggestions for teachers

- Students must be taught in what way is the gravitational force different from other non-contact forces. There is a need to emphasize on inverse **square** relation rather than saying 'one increases and the other decreases'.
- Conversion from kgf to N should be emphasized **periodically**. Students should be made aware that when the question says compare then the answer should be in the form of ratio or greater than or less than. (not in the form of a fraction).

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