

PHYSICS

Science Paper—1

(One Hour and a Half)

Answers to this Paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Section I is compulsory. Attempt any four questions from Section II.

The intended marks for questions or parts of questions are given in brackets [].

SECTION I (40 Marks)

Attempt all questions from this Section

Question 1

- (a) (i) Define 1 kgf.
(ii) How is it related to the S.I. unit of force? [2]
- (b) (i) What are non-contact forces?
(ii) How does the distance of separation between two bodies affect the magnitude of the non-contact force between them? [2]
- (c) A boy of mass 30 kg is sitting at a distance of 2 m from the middle of a see-saw. Where should a boy of mass 40 kg sit so as to balance the see-saw? [2]
- (d) (i) What is meant by the term 'moment of force'?
(ii) If the moment of force is assigned a negative sign then will the turning tendency of the force be clockwise or anticlockwise? [2]
- (e) A ball is placed on a compressed spring. When the spring is released, the ball is observed to fly away.
(i) What form of energy does the compressed spring possess?
(ii) Why does the ball fly away? [2]



Question 2

- (a) (i) State the energy conversion taking place in a solar cell.
(ii) Give one disadvantage of using a solar cell. [2]
- (b) A body of mass 0.2 kg falls from a height of 10 m to a height of 6 m above the ground. Find the loss in potential energy taking place in the body.
[$g = 10\text{ms}^{-2}$] [2]
- (c) (i) Define the term refractive index of a medium in terms of velocity of light.
(ii) A ray of light moves from a rare medium to a dense medium as shown in the diagram below. Write down the number of the ray which represents the partially reflected ray. [2]

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Christian G. Meyer



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