

PART II

(40 marks)

Answer any four questions in this part.

All questions carry equal marks.

12. (a) (i) Explain *fundamental quantity*.
(ii) Mention two quantities which have the same unit as energy.
- (b) Sketch a velocity-time graph of the motion of a pendulum bob swinging from one end to another.
- (c) A metre rule of mass 15 g pivoted at the 30 cm mark balanced horizontally when a load of 25 g was hung at the 18 cm mark.
(i) Sketch the set up.
(ii) If the position of the pivot is moved to the 33 cm mark, by how much must the load be reduced to maintain the horizontal balance of rule?
13. (a) Distinguish between *elastic* and *inelastic* collisions.
- (b) A calorimeter containing 65 g of ice at -10°C is heated uniformly until it boils after 180 s. Sketch a labelled graph to illustrate the variation of temperature of the ice with time.
- (c) A faulty Celsius thermometer reads 5°C at the melting point of pure ice and 95°C at the boiling point of water at normal pressure. Calculate the:
(i) Correct temperature reading when it reads 40°C
(ii) Temperature at which its reading will be exactly the same as the correct temperature reading
14. (a) (i) State Snell's law of refraction.
(ii) Why does a musical note, of the same amplitude and frequency being played on a flute, guitar and trumpet, sounds different?
- (b) (i) Mention one similarity between a camera and the human eye.
(ii) Give one difference between a camera and the human eye.
- (c) A light ray travelled from water into the air at an angle of incidence of 30° . Calculate:
(i) Its speed in water
(ii) The angle of refraction in the air
[Speed of light in air = $3.0 \times 10^8 \text{ ms}^{-1}$, refractive index of water = 1.33]

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