

KCSE Physics Mock Paper 1 Exams + Answers

16. The tube is now held in a vertical position with the open end facing upwards as shown in Figure 10.

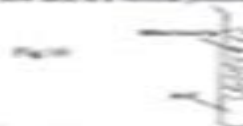


Fig. 10

17. (a) Determine the pressure of the enclosed air.
(i) The length (L) of the enclosed air column. (1) (1 mark)
(ii) State two ways in which the compressed force on a body of volume can be increased. (2) (2 marks)
(b) Fig. 11 shows an object at the end of a light spring balance connected to a peg using a string. The object is moving in a circular path in a horizontal plane with a constant speed.



- (i) State what provides the centripetal force. (1) (1 mark)
(ii) Indicate with an arrow on the figure the direction of the centripetal force. (1) (1 mark)
(iii) State with a reason why the object is accelerating while the speed remains constant. (2) (2 marks)
(iv) Given the mass of the object is 0.15 kg and it is moving at a speed of 0.8 m/s in a circle of 2m, determine the readings on the spring balance. (2) (2 marks)
(c) Figure 12 shows a trolley on rollers of mass 2 kg moving with uniform velocity towards a wall. At the front of the trolley is a spring whose spring constant is 200 N/m. The trolley comes to rest momentarily after compressing the spring by 5 cm and then rebounds from the wall.



Fig. 12

- (i) Determine the force exerted on the wall by the spring. (1) (1 mark)
(ii) The maximum acceleration of the trolley as it rebounds from the wall. (1) (1 mark)
(iii) State the reason why the trolley acquires a constant velocity after it rebounds. (1) (1 mark)
18. Figure 13 shows three stages of an experiment to determine relative density of cork which is less than that of water. To make it sink, a metal is fixed to the cork.



Fig. 13

- In (i) a spring balance is used to measure the weight W_1 of the cork in air. In (ii) the spring balance is used to measure the apparent weight W_2 of the cork when fully submerged in water. In (iii) the spring balance is used to measure the apparent weight W_3 when both the cork and the metal are submerged.

The following observations were made:

$$W_1 = 0.020 \text{ N}$$

$$W_2 = 0.005 \text{ N}$$

$$W_3 = 0.200 \text{ N}$$

Use this information to determine the:

- (i) Relative density of cork. (1) (1 mark)

- (ii) Relative density of cork. (1) (1 mark)

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