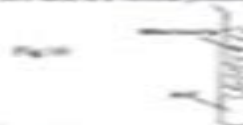


# KCSE Physics Mock Paper 1 Exams + Answers

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



Determine:  
(i) The pressure of the enclosed air.  
(ii) The length ( $L$ ) of the enclosed air column.

(1)(1) (2)(1)

17. (a) State two ways in which the centripetal force on a body of constant mass can be increased.

(1)(1) (2)(1)

- (b) Figure 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.  
(ii) Indicate with an arrow on the figure the direction of the centripetal force.  
(iii) State with a reason why the object is accelerating while the speed remains constant.  
(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 reading on the spring balance.

(1)(1) (1)(1)

(1)(1) (1)(1)

(1)(1) (1)(1)

- (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.



- (i) Determine:  
(a) The force exerted on the wall by the spring.  
(ii) The maximum acceleration of the trolley as it rebounds from the wall.  
(iii) State the reason why the trolley acquires a constant velocity after it rebounds.

(1)(1) (1)(1)

(1)(1) (1)(1)

(1)(1) (1)(1)

18. Figure 13 shows three stages of an experiment to determine relative density of cork which normally floats on water. To make it sink, a metal is fixed to the cork.



- 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 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.  
(ii) Relative density of metal.

(1)(1) (1)(1)

(1)(1) (1)(1)

# Novanet Physics Answers

**M Mosston**



## **Novanet Physics Answers:**

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**Resources in Education**, 1988      **National Center for Supercomputing Applications Access**, 1987      *Government Reports Announcements & Index*, 1988-07      **Air & Space Smithsonian**, 1995      Government reports annual index, 199?      Problems And Solutions On Atomic, Nuclear And Particle Physics (this Is Divided Into Four Parts),      **Answers to Questions About Origin Particles in Physics** Miroslav Halza, 2019-05-29 Do energies produce objects or objects produce energies Albert Einstein set his career on revealing the secret mysticism It is Jewish mysticism written in the book Zohar Splendor or Radiance that interprets the biblical creation by slowing and extinguishing light In other words Zohar introduced mass energy equivalence matter is that light and relativity of time due to speed lost speed of that light has produced time Einstein just added mathematical formulas to those mystic theorems to be

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