

PHYSICS; MEASUREMENT

KCSE QUICK REVISION

*Compilation of Possible Questions in Physics Likely to be examined in
KCSE.*

*A Special Analysis of Prediction Questions that may be Tested in KCSE from this
Topic in Form 1.*

PHYSICS

SERIES 1

For Marking Schemes

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MWALIMU CONSULTANCY

MEASUREMENT I

1. (a) Distinguish between density and relative density of a substance

(b) A ship of mass 1300 tonnes floats on sea water:

(i) What volume of sea water is displaced (Density of sea water is 1025kg/m^3)

(ii) Suppose it sails from sea water to fresh water, what cargo must be removed so that the same volume of water is displaced? (Density of fresh water = 1000kg/m^3)

(c) Describe an experiment to verify the law of floatation

2. Define **relative density**

3. A bathroom shower has 200 holes each 2.5mm^2 in area. Water flows from a pipe of cross-section area of 15cm^2 at 5m/s to the shower. Determine the speed of the spray.

4. A piece of metal **N** of mass 2kg weighs 18N in water and 12N in liquid **M**.

Determine the density of ;

(i) The metal **N**

(ii) The liquid **M**

5. A measuring cylinder contains 50cm^3 of light oil at 0°C . When a lump of dried ice is placed in the oil, the total volume is 72cm^3 . Determine the density of the ice

6. The *figure 1* below shows a manometer connected to a gas supply. The pressure of the gas supply above the atmospheric pressure is equivalent to a 20cm column of water. Use this information and the figure to answer questions 2 and 3.

For Marking Schemes/Answers

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