

BOT TERM II EXAMS

S.1 PHYSICS

TIME: 1 HOUR

INSTRUCTIONS

- Answer all questions

1. Convert the following to the required units

(a) 100cm^3 to m^2

(2 marks)

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(b) 2 litres to cm^3

(2 marks)

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(c) 400m to km

(2 marks)

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(d) 50dm to m

(2 marks)

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(e) 5Dm to m.

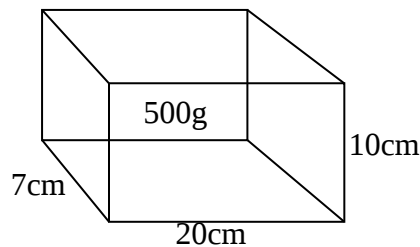
(2 marks)

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2.



(a) Calculate the density of the figure above and give your answer in;

(i) g/cc

(3 marks)

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(ii) Kg/m^3

(3 marks)

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(b) A block of mass 2kg has a volume of 2000cm^3 . Calculate the density of the material in which the block was made. (4 marks)

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3. (a) The relative density of a certain oil is 2. Calculate the density of the oil if the density of water is 1000kg/m^3 . (3 marks)

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(b) An empty density bottle weighs 35N. The same bottle weighs 60N when half way filled with water. If it weighs 75N when half way filled with another liquid, calculate;

(i) the weight of the water (2 marks)

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(ii) The weight of the liquid (2 marks)

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(iii) the relative density of the liquid. (3 marks)

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END