NAME……………………………..ADM…………..CLASS……………...

PHYSICS
FORM 1 EXAMS
TERM ONE

Answer all the questions in the spaces provided.

1. a) Define the term physics. (1mks)
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    b) State and explain any 3 branches of physics. (6mks)
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2. (a) What is laboratory?   (1 mk)
    ……………………………………………………………………………………………
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    b) State six safety rules that should be followed while you are in the laboratory. (6 mks)
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3. While stating an example in each case, differentiate between derived quantity and basic quantity. (4mks)

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4. State any two instrument that we can use to measure a length.(2mks)

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5. Define the following term and state the SI unit in each case.   (6 mks)

    i)   Mass…………………………………………………………………………………………
            ……………………………………………………………………………………………………
            ……………………………………………………………………………………… ii)
            Volume…………………………………………………………………………………
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            ……………………………………………………………………………………………………
            ………………………………………………………………………………… iii)
    Area……………………………………………………………………………………………
    ……………………………………………………………………………………………………
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6. Convert each of the following as indicated   (3 mks)
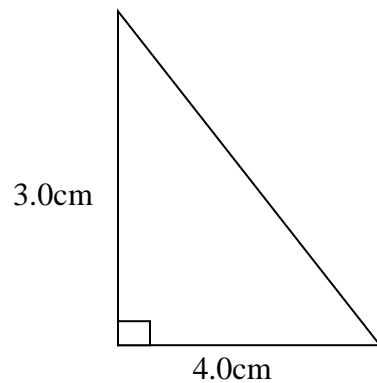
    i)   10 tonnes into kg

    ii)   1.2g into mg

    iii)   200000 mg into kg

7. A block of glass is 5.0 cm long, 4.0cm thick and 2.5cm high. Calculate its volume.(3mks)

8. Calculate the area of a triangle whose base is 4.0cm and its height is 3.0cm. (3 mks)

3.0cm

4.0cm

9. The mass of 25cm^3 of ivory was found to be 0.045kg. Calculate the density of ivory in SI unit. (4mks)

10. 100cm^3 of fresh water density 1000kg/m^3 is mixed with 100cm^3 of sea water of density 1030kg/m^3. Calculate:-

 i.   Mass of fresh water.

 ii.   Mass of sea water.   (1 mk)

 iii.   Mass of the mixture.   (1 mk)

 iv.   Volume of the mixture   (1 mk)

 v.   The density of the mixture.   (2 mk)

11. The density of water is 1g/cm^3 express in kg/m^3.   (1 mk)

12. Explain the relationship between the following.

 i.   Physics and mathematics. (1mks)

 ii.   Physics and chemistry. (1mks)

13. Give two reasons for studying Physics.   (2 mks)