

NAME.....ADM.....CLASS.....
PHYSICS FORM 1
END-TERM 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.....
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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

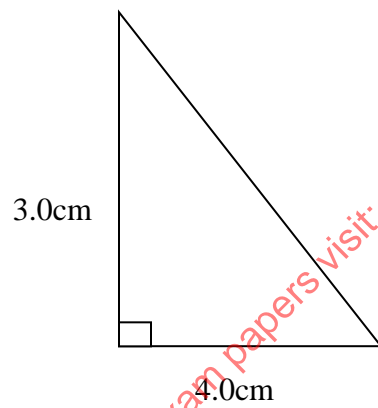
ii) 1.2g into mg

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)



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)

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