

S.1 PHYSICS HOME LEARNING TEST

Name:

Instructions:

- Attempt all questions.
- Circle the correct alternative for Section A.

SECTION A-

1. The three fundamental physical quantities are
A. Mass, volume, density
B. Mass, length, time
C. Length, time, area
D. Volume, density, area
2. An object has mass 200g and density 25gcm^{-3} . Calculate its volume in cm^3 .
A. 0.125
B. 50.00
C. 8.175
D. 8
3. The S.i unit of mass is
A. Kg
B. Kgm^{-3}
C. g
D. gcm^{-3}
4. The best instrument for measuring the diameter of a bicycle spoke is
A. Vernier calliper
B. Engineer's caliper
C. Micrometer screw gauge
D. Measuring cylinder
5. The volume of a stone can be determined by
A. Measuring cylinder
B. Displacement method
C. Meter rule
D. Ammeter
6. Convert 0.2525m^2 into cm^2
A. 0.00002525
B. 25.25
C. 0.002525
D. 2525
7. Write 0.0002 into standard form.

- A. 2×10^4
- B. 2×10^{-4}

- C. 2×10^3
- D. 2×10^{-3}

8. The most accurate instrument used to measure mass in a school laboratory is
- A. Tape measure
 - B. Spring balance
 - C. Beam balance
 - D. Manometer
9. The formular for calculating the density of an object is written as
- A. $\text{Density} = \frac{\text{Mass}}{\text{Volume}}$
 - B. $\text{Mass} = \text{volume} \times \text{Density}$
 - C. $\text{Volume} = \frac{\text{Density}}{\text{Mass}}$
 - D. $\text{Volume} = \frac{\text{Mass}}{\text{Density}}$
10. The following are states of matter except
- A. Solid
 - B. Liquid
 - C. gas
 - D. Mass

SECTION B

11. (a) Define mass and state its S.I unit. (02 marks)

.....

.....

.....

(b) A measuring cylinder weighs 60g when empty and 140g when filled with sand. If the volume of sand is 50cm^3 . Calculate;

- (i) Mass of sand. (01 mark)

.....

.....

.....

.....

.....

(ii) Density of sand

(02 marks)

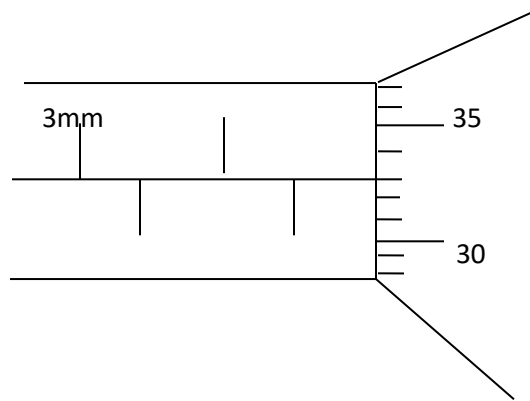
.....
.....
.....
.....
.....

12. (a) Define volume and give its S.i Unit.

(02 marks)

.....
.....
.....
.....
.....

(b) What is the reading of the micrometer screw gauge below? (03 marks)



.....
.....
.....
.....
.....
.....
.....

==End==