

S.1 PHYSICS

END OF TERM ONE-2019.

INSTRUCTIONS.

ALL QUESTIONS SHOULD BE ANSWERED.

CIRCLE THE CORRECT ALTERNATIVE IN SECTION A. USE THE SPACES PROVIDED TO WRITE YOUR ANSWER IN SECTION B.

SECTION A

1. The following are all ***fundamental quantities*** except one ,which one?
A. area B. mass C. length D. time.
2. Why do we use ***SI units*** when measuring physical quantities?
A. Because they are internationally accepted everywhere in the world.
B. Because they are easy to understand.
C. Because they are the only units for a given quantity.
D. Because they are easy to convert to other units.
3. How can you define ***matter***?
A. Physical objects on earth.
B. Anything that occupies space and has weight.
C. matter refers to liquids such as water which flow.
D. matter refers to solids that are heavy.
4. State the instrument that is most suitable for measuring the external diameter of a laboratory test tube?
A. micrometer screw gauge. B. tape measure.
C. vernier calliper D. a metre rule.
5. In what unit does the ***micrometer screw gauge*** operate?
A. cm B. mm C. m D. km
6. Write the number 348.5 in ***Scientific form***.

- A. 34.85×10^1 B. 3.485×10^2 C. 3.485×10^3 D. 3.485×10^{-2} .
7. Which of the following is not a **branch** of physics?
- A. Mechanics B. Light C. Heat D. Engineering.
8. The SI unit for length is?
- A. cm B. mm C. m D. km
9. Which of the following is not used to measure **volume** of a liquid in the laboratory?
- A. thermos flask B. burette C. measuring cylinder D. beaker
10. A rectangular block of wood ,25cm by 4cm by 20cm has a mass of 1.6kg.What is its **density** in gcm^{-3} .
- A. 0.0008gcm^{-3} B. 0.8gcm^{-3} C. 800gcm^{-3} D. 8000gcm^{-3}
11. Convert 7,257,600 seconds to weeks.
- A. 84 B. 12 C. 10 D. 7
12. Study the properties below and answer the question that follows.
- (i) they have no definite shape
- (ii) they cannot be compressed
- (iii) the particles are fairly close to each other.
- The properties above describe a :
- A. solid B. gas C. liquid D. none
13. What instrument would you use to measure the diameter of a thin wire?
- A. tape measure B. vernier calliper
- C. metre rule D. micrometer screw gauge.
14. Calculate the total surface area of a cuboid of dimensions $50\text{cm} \times 20\text{cm} \times 40\text{cm}$,giving your answer in m^2 .
- A. 7600m^2 B. 0.76m^2 C. 0.8m^2 D. 0.1m^2

SECTION B

15.(a) Define a laboratory.

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(b) Mention any five rules in the laboratory.

(i).....

(ii).....

(iii).....

(iv)

(v)

16. (a) Draw a vernier calliper and label its parts.

(b) Calculate the reading shown by the vernier calliper below.

Quantity	S I Units	Symbols
Force		
Area		
Volume		
Density		
Speed		
Energy		
Pressure		