

Name of student: \_\_\_\_\_

Subject: Physics

Grade: 9<sup>th</sup> Section: \_\_\_\_\_

1<sup>st</sup> QUARTER FINAL EXAM time allowed 1:30hr

Number: \_\_\_\_\_ Date: NOVEMBER 2024 G.C/ HIDAR 2017 E.C

**I. Write `True` if the statement is correct or `False` if it is incorrect on the space provided.**

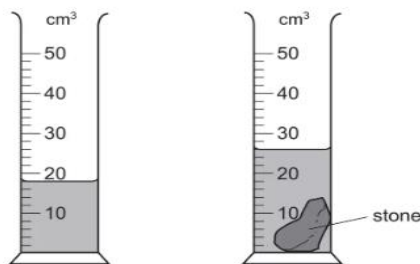
1. Error can be avoided by using modern measuring instrument.
2. "Temperature measured in Celsius" is an example of a ratio scale variable.
3. Random errors are caused by unpredictable variations in the measurement process.
4. A micrometer is used to measure very small distances.
5. Physics is concerned with understanding the fundamental laws of the universe.

**II. Match column A with appropriate unit in B**

<u>A</u>	<u>B</u>
6.Length	A. Joule
7.Electric current	B. Newton
8.Temperature	C. Candela
9.Amount of substance	D. mole
10. Force	E. kelvin
	F. ampere
	G. meter

**III. Choose the correct answer and write the letter of your choice on the space provided.**

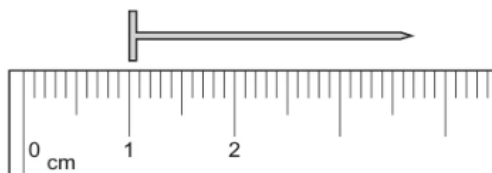
11. A student measure the time it takes for participant to complete a task, what level of measurement is this?  
A. Ratio    B. nominal    C. ordinal    D. interval
12. Which of the following is not the unit of time?  
A. Second    B. hour    C. minute    D. light year
13. Which of the following is dimension less quantity?  
A. Force    B. pressure    C. relative density    D. momentum
14. Which is heavier, a kilogram of feather or a kilogram of stone?  
A. feather    B. stone    C. they weight the same    D. it depends on the size of the feather and stone
15. For a student measured the length of needle whose least count is 1mm, what is the reading?  
A. 0.2185m    B. 0.41m    C. 0.437m    D. 0.6m
16. Which of the following sets contains only fundamental physical quantities?  
A. time, force, charge, mass    C. mass, temperature, electric current, charge  
B. length, energy, power, acceleration    D. torque, time, temperature, momentum
17. How many seconds are there in one year  
A.  $3.156 \times 10^6$ s    B.  $3.156 \times 10^8$ s    C.  $3.156 \times 10^{10}$ s    D.  $3.156 \times 10^7$ s
18. The diagram shows a measuring cylinder used to measure the volume of small stone



What is the volume of the stone?

- A.  $8\text{cm}^3$     B.  $9\text{cm}^3$     C.  $14\text{cm}^3$     D.  $26\text{cm}^3$ .

19. The diagram shows part of a ruler. The ruler is used to find the length of a nail.



What is the length of the nail?

- A. 2.2cm    B. 2.7cm    C. 3.2cm    D. 3.7cm

- IV. Answer the following questions.**

- V. Work out the following questions accordingly.**

7. Iron has a density of  $7.87\text{g/cm}^3$ , and the mass of an iron atom is  $9.27 \times 10^{-26}\text{kg}$ . If the atoms are spherical and tightly packed, (a) what is the volume of an iron atom

8. A solid cube of aluminum (density  $2.7 \text{ g/cm}^3$ ) has a volume of  $0.20 \text{ cm}^3$ . How many aluminum atoms are contained in the cube?
9. Convert: 4km to cm
10. convert 2.5min to second

PREPARED BY: GETAHUN.A