St. John Baptist De La Salle Catholic School, Addis Ababa,

Name of student:	Subject: Physics	
Grade: 9 th Section:	1 st QUARTER FINAL EXAM	time allowed1:30hr
Number:	Date: NOVEMBER 2024 G.	<u>C/ HIDAR 2017 E.C</u>

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.

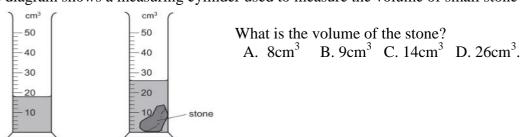
II. Mach column A with appropriate unit in B

$\underline{\mathbf{A}}$	<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

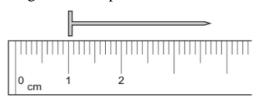
III. Choose the correct answer and write the letter of your choice on the space provided.

- 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 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. $3.156 \times 10^6 \text{s}$ B. $3.156 \times 10^8 \text{s}$ C. $3.156 \times 10^{10} \text{s}$ D. $3.156 \times 10^7 \text{s}$
- 18. The diagram shows a measuring cylinder used to measure the volume of small stone



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

A. Force and weight B. work and energy C. mass and weight D. A and B 21. Which of the following is not correct about physics? A. It is a science of measurement C. is studies about laws of nature B. It deals about chemical composition of matter D. it deals with matter energy, a relationship 22. 5 hours+60minutes+60 seconds are equal to: A. 361minutes B. 360 minutes C. 361 seconds D. 360 seconds 23. How many kilograms are there in 800grams? A. 0.0008kg B. 80kg C. 0.8kg D. 800kg 24. One of the following is true about dimensional expression of density? A. [MLT ⁻³] B. [ML ³] C. [ML ³] D. [MT ³] 25. A movie last 2hour and 30 min. how many minutes is this in total? A. 120min B. 150min C. 180min D. 210min 26. Identify the most reasonable unit to measure the distance from Addiss Abeba to G. A. Km B. m. C. cm. D. mm 27. Which of the following is correct? A. 1 tone=100kg B. 1kg=1000mg C. 2 tone=2000kg D. 2g=0.002mg 28. The branch of physics which deals with atomic nuclei is called A. Acoustics B. Thermodynamics C. Magnetism D. Nuclear physics 29. The Amount of matter contained in a body is: A. Volume B. mass C. length D. area 30. The \$1 standard of time is based on: A. The daily rotation of the earth about the sun D. a period of particular radium er atom 1V. Answer the following questions. 1. 30cm+40mm+50m= 2. Length at olden days were measured in 3. What is measurement 4. What are the three key elements in measurement 5. Define Physical quantities: V. Work out the following questions accordingly. 1. Yared's favorite television starts at 3:15. If he gets home from school at 2:30, how until his show starts in second? 2. In one side of the beam balance there is 3kg paper, 4kg iron and 30g aluminum. Wi must be placed on the other side to be balanced? 3. A 100g mass is immersed in a measuring cylinder containing some of water changes from 20cm ³ to 25cm ³ . What is the density of the not water changes from 20cm ³ to 25cm ³ . What is the density of the nother stores are part of the scientific method. Explain why it is	
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conducting a scientific investigation.	
6. Seden is 167 cm tall. Gifti is 66 inches tall. Who is taller and by how much. The conversion	ion factor for inches to
centimeters is 2.54 cm/1 inch.	.s radior for menes to

7. Iron has a density of 7.87g/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 g/cm³) has a volume of 0.20 cm³. How many aluminum atoms are contained in the cube?
- 9. Convert: 4kmto cm
- 10. convert 2.5min to second

PREPARED BY: GETAHUN.A