

Girls' High School & College, Prayagraj

Worksheet No.- 1

Session 2020-2021

Class - IX A B C D E F

Subject- Physics

Chapter- Measurements and Experimentation

Instructions:- Parents are expected to ensure that the student spends two days to read and understand the chapter according to the books and website referred and thereafter answer the given questions.

Note:-

Topic :- SYSTEM OF UNIT AND UNITS IN S.I. SYSTEM

Student should refer to books related to class 6, 7, 8 and also following books/website-

Concise Physics By R. P. Goyal and S. P. Tripathi (Selina Publisher) OR

A New Approach to I.C.S.E. Physics by V. K. Sally and D. Chauhan (Goyal Brothers Prakashan) OR

website-http://quiznext.in/study-material/learning_material/ICSE-9-Physics/Measurement-and-Experimentation/measurement-of-length/

Answer the following questions briefly:-

1. Name the seven fundamental quantities.
2. What do you understand by term derived unit?
3. What is S.I. system?
4. What are the three requirements for selecting a unit of a physical quantity?
5. Write two units of length which are bigger than a metre.
6. State two units of mass bigger than a Kilogram. Give their relationship with the kilogram.
7. Define light year.
8. The wavelength of light of a particular color is 6380 \AA . Express it in nanometer and metre.
9. Name the S.I. Unit of mass and define it.
10. Name two units of time bigger than a second. How are they related to the second?
11. What is a lunar month?
12. The size of bacteria is 5μ . Find the number of bacteria in 1m length.
13. Name the physical quantities which are measured in the following units:
a) Ly b) ns c) nm
14. What is a leap year?
15. Write the derived units of speed, force and pressure.

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