# Girls' High School \& College, Prayagraj <br> Worksheet No.- 2 <br> Session 2020-2021 <br> Class - IX A B C D E F <br> Subject- Physics <br> 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 :- MEASUREMENT OF LENGTH, TIME AND SIMPLE PENDULUM

Student should refer to books of class 6, 7, 8 and also the 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. What do you understand by the term 'least count' of an instrument?
2. Define the term 'Vernier constant'.
3. Name the important parts of a vernier callipers.
4. What are the uses of a vernier callipers?
5. Explain the principle of a vernier callipers and write the formula for least count of a vernier callipers.
6. What is the function of external jaws of a vernier callipers?
7. How can the least count of a screw gauge be decreased?
8. Draw a neat and labelled diagram of a vernier callipers.
9. What is backlash error? How is it avoided?
10. State the purpose of ratchet in a screw gauge.
11. A simple pendulum completes 50 oscillations in one minute. Find its
(a) frequency,
(b) time period.
12. Name two factors on which the time period of a simple pendulum depends.
13. Compare the time periods of two pendulums of length 4 m and 9 m .
14. What is a second's pendulum?
15. An ammeter has 10 divisions between 0 A and 1 A . What is its least count?

END

