

# Government Arts and Science College, Avinashi-641654

## CIA Test-I -October-2020

Class: II-B.Sc. Chemistry

Date: 29-10-2020 FN

Subject: Allied Physics-I

Max. Marks: 25 Marks

Semester: III

### Part-A (4x1=4)

#### Answer all the questions

- Which of the following is paramagnetic material?  
a. Antimony   b. Chromium   c. Bismuth   d. Water
- The lagging of flux density behind the magnetizing force is known as  
a. Power factor   b. magnetic permeability   c. magnetic susceptibility  
d. hysteresis
- The value of solar constant is .....  $\text{Jm}^{-2} \text{s}^{-1}$   
a. 4200   b. 2400   c. 4100   d. 1400
- Temperature of the Sun is  
a. 2185K   b. 5812K   c. 8521K   d. 1285K

### Part- B ( 2x3=6)

#### Answer all the questions

- a. Give some general applications of solar energy. Or
- b. Describe solar water heater.
- a. Give the properties of para magnetic materials. Or
- b. Discuss about the applications of Ferrites in computer memory.

### Part-C (3x5=15)

#### Answer all the questions

- a. Explain box type cooker with neat diagram. Or
- b. Describe Pyroheliometer.
- a. Explain the difference between electric and magnetic circuits. Or
- b. Describe about area of B-H loop.
- a. What is flat-plate collector? Explain. Or
- b. Explain the construction and working of Pyranometer.

\*\*\*\*\* All the Best\*\*\*\*\*