

DEVAMATHA CMI PUBLIC SCHOOL
PERIODIC TEST - I 2017 - 18

Std. VII**SCIENCE**

Time : 90 min

PART A - PHYSICS (13 Marks)

Marks : 40

- I Answer the following questions in one or two sentences each: (1x1=1)
1. What is a simple Pendulum?
- II Answer the following questions in two or three sentences each: (2x2=4)
1. A cyclist covers a certain distance in 2 hours, if she cycles at a speed of 18km/h. How much distance does she cover?
 2. Mention the precautions to be taken while reading a Clinical Thermometer.
- III Give reason for the following statements: (3)
1. a) Sundial is not an appropriate instrument to measure time.
b) Mercury is used as a thermometric liquid.
c) Time period of a given pendulum is constant.
- IV Answer the following question in brief: (5)
1. a) While constructing a house in a coastal area, in which direction should the windows preferably faced and why?
b) Differentiate between Conduction and Radiation.
c) How does woollen clothes keeps us warm in winter?

PART B - CHEMISTRY (13 marks)

- I Answer the following questions in one or two sentences each: (1x2=2)
1. Define: Soil Profile. Name the different layers in a soil profile.
 2. Give reason: In a neutralisation reaction, the temperature of the mixture rises.
- II Answer the following questions in two or three sentences each : (2x4=8)
3. How are Salts formed? Give two examples.
 4. You are provided with three clear and colourless liquids in three different test tubes. How will you identify which test tube contains an acid, a base or water?
 5. Give two differences between Sandy Soil and Loamy Soil.
 6. Lakshmi performed an experiment in her garden related to the rate of percolation of her garden soil. She found that it took 15 minutes for 200 ml of water to percolate through the soil. Calculate the rate of percolation.
- III Answer the following questions in two or three sentences each : (3)
1. Neutralisation reactions play an important role in our daily life. Support the statement with two examples.

PART C - BIOLOGY (14 marks)

- I Name the following: (1x4=4)
1. The pores through which leaves exchanges gases.
 2. The plant which traps and feeds insects.
 3. The type of carbohydrate that can be digested by ruminants but not by humans.
 4. The gland which produces bile juice.
- II Answer the following questions in two or three sentences each: (2x2=4)
5. What are Villi? State their function and location
 6. Differentiate between Parasitic Nutrition and Saprotrophic Nutrition with examples.
- III Answer the following questions in five or six sentences each: (3x2=6)
7. How does feeding and digestion takes place in Amoeba?
 8. a) Draw and label the diagram of Stomata.
b) Write the Functions of Stomata.