

## HOLIDAY ASSIGNMENT

### CLASS- VI

#### Assignment-1

##### Physics

1. Short time intervals are measured by which device? [1]
2. Give two differences between circular and rotational motion with examples. [2]
3. Write the units for measuring the following quantities: [2]
  - a) Length of your eraser, b) Your height, c) Distance between Delhi and Mumbai, d) Thickness of a coin.
4. Motion of a pendulum clock is both oscillatory and periodic. – Explain. [3]
5. Rahul was performing an activity where he needs to measure the length of a table but the metre scale he was using was worn out between its 1 cm and 3 cm marks due to overuse.
  - a) If he measures the length by keeping its one end at the 4.0 cm mark and the other end reads 75.7 cm, then find the length of the table.
  - b) Is it appropriate to measure the same length (table) using his handspan? – Explain. [2+3]

##### Chemistry

1. Metals generally have a \_\_\_\_\_ appearance. [1]
2. Define the following terms: a) Saturated solution b) Diffusion [2+2]
3. Why solids have fixed shape and volume? [3]
4. Describe an activity to show that pure air is a transparent substance. [5]

##### Biology

1. Give two examples of decomposers. 1
2. Give one example of a food chain. 1
3. Differentiate autotrophs from heterotrophs. 2
4. How do plants and animals respond to light? Explain with suitable example. 2
5. Explain the following terms. 3

(a) Compost (b) Consumer (c) Vermicomposting

6. What do you mean by nutrients? Classify them in the form of a flow diagram. 5

## Assignment-2

### Physics

1. What is the standard unit of mass? [1]
2. We may face many problem in our daily life without standard measurement. Give two such type of examples from your day to day life. [2]
3. Write two differences between rectilinear and curvilinear motions with examples. [2]
4. 2. Mention the type of motion of the following:  
a) Vibrating tuning fork, b) Movement of a bee, c) Motion of a bicycle wheel. [3]
5. Write the precautions to be followed with their respective supporting diagrams when a metre scale is being used for measuring a given length. [5]

### Chemistry

1. Wood is an \_\_\_\_\_ material. [1]
2. Define the following terms: a) transparency b) Synthetic materials. [2+2]
3. Write down the effect of temperature on solubility of i) solid in liquid ii) gas in liquid. [3]
4. Describe an activity to show that a liquid can diffuse slowly into a liquid. [5]

### Biology

1. What are the protective food? 1
2. What do you mean by milch animal? 1
3. Differentiate primary consumer from secondary consumer with examples. 2
4. What will happen if dead organisms are not decomposed by the help of microorganisms? 2
5. What is food chain? Give two examples. 3
6. What do you mean by rain water harvesting? Mention it's importance. 5

### Assignment-3

#### Physics

1. What is the time interval between two successive heart beat if a normal human being has 72 beats per minute? [1]
2. Write two advantages of using standard unit system over traditional unit system in measurement. [2]
3. Write two conditions for a motion to be periodic. [2]
4. Write the devices to measure the following:
  - a) Circumference of a circular field, b) Time duration of 100 m race, c) Your height [3]
5. Write the various effects of force with examples. [5]

#### Chemistry

1. Potassium permanganate is green in colour. Correct the sentence. [1]
2. Define the following terms: a) Matter b) solubility. [2+2]
3. Draw the arrangement of particles in three states of matter. [3]
4. With the help of an activity find out the solubility of sugar in water. [5]

#### Biology

1. Name two animals are found in cold region. 1
2. Why protein is called as body building food? 1
3. Name the chemicals required for testing of sugar and starch. 2
4. What do you mean by mineral cycle? 2
5. Mention the importance of oxygen, nitrogen and carbondioxide on plants and animal life? 3
6. With the help of a flow diagram show the various components of environment and give one example in each. 5

**Chemistry project :-** With the help of a model(thermocool) show the arrangement of particles in three states of matter.(Individual project)

Guidelines: Use thermocol sheet, thermocol ball, gum, sticky fluid etc.