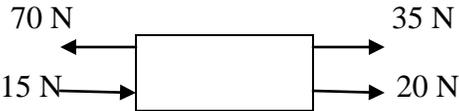


# HOLIDAY ASSIGNMENT

## CLASS- VIII

### Assignment-1

#### Physics

1.  Find the net force on the body. [1]

2. Why are submarines built with very thick and heavy metals? [2]
3. Define hydrostatic pressure. [2]
4. Write three natural phenomena related to variation of air pressure with temperature. [3]
5. Write different effects of force with examples. [5]

#### Chemistry

1. Write down the melting point of iron and caesium.  $1/2 \times 2 = 1$
2. What is metallurgy? Write the different steps of metallurgy. 2
3. What is an alloy? Why should we make an alloy? 2
4. What happens when zinc is added to copper sulphate solution. Give reason and write the chemical equation. 3
5. With the help of an activity prove that metal oxides are alkaline in nature. 5

#### Biology

1. Name the organelle which is known as “powerhouse of a cell”. 1
2. Write the full form of DNA. 1
3. Write the function of vacuole. 2
4. Write the full form of SER. Mention its functions. 2
5. Write any three differences between a plant cell and an animal cell. 3
6. Draw the diagram of a plant cell and label the following parts: Vacuole, Plastid, Mitochondria, Ribosome. 5

## Assignment-2

### Physics

1. Balanced forces are acting on a body moving with constant speed. Will there be any change in its motion? [1]
2. When a ball is thrown upward, it goes up in the air but then fall down again. Name the force responsible for this. Also write the nature of force. [2]
3. Why we do not feel the huge atmospheric pressure acting on us all the time? [2]
4. Write three properties of liquid pressure. [3]
5. a) State the working of injection syringe on the basis of atmospheric pressure.  
b) Why are wooden slippers placed underneath the railway track? [3+2]

### Chemistry

1. Mention one use of Iodine and phosphorus.  $1/2 \times 2 = 1$
2. Find out the percentage of copper present in 24 carat Gold, when mixed with copper. 2
3. Curd should not be stored in copper utensils. Give reason. 2
4. What are noble metals? Give two examples. Mention their special uses. 3
5. How do you identify H<sub>2</sub> gas with the help of an activity? 5

### Biology

1. Write the full form of RER. 1
2. Name any two organelles which are present in plant cell but not in animal cell. 1
3. Write the four different parts of a nucleus. 2
4. Write any two functions of Golgi bodies. 2
5. Briefly describe the structure of mitochondria along with its function. 3
6. Draw a labeled diagram of an animal cell. 5

### Assignment-3

#### Physics

1. Give example of one non-contact force which is only attractive in nature. [1]
2. Military tanks have caterpillar tracks. Explain the reason. [2]
3. Write two applications of the principle of equality of transmission of pressure in liquid (Pascal's law). [2]
- 4.a) Define thrust and write its S.I unit.
- b) A wooden block exerts a pressure of 50 Pa when it is kept on a table. What is the pressure exerted by another block of same weight but of double surface area? [1+2]
5. a) How does atmospheric pressure vary with altitude and temperature?
- b) How does atmospheric pressure help lizards to walk on wall? [3+2]

#### Chemistry

1. Write the composition of brass and one use of it.  $1/2 \times 2 = 1$
2. Explain why?
  - a) Lead do not liberate hydrogen from acid solution.
  - b) Aluminium is a reactive metal, still it is used for making utensils.  $2 \times 2 = 4$
3. What is reactivity series? Write down two uses of it.. 3
4. Write down the following chemical equations and balance them. 5
  - a) Potassium reacts with water.
  - b) Zinc reacts with sodium hydroxide.
  - c) Aluminium reacts with oxygen.
  - b) Iron reacts with steam.
  - b) Iron reacts with oxygen in presence of moisture.

#### Biology

1. Write the full form of DNA. 1
2. Write the function of Ribosome. 1

3. Why Lysosome is known as “Suicidal bag of cell”? 2
4. Differentiate between Cilia and Flagella. 2
5. Mention three different types of plastids and write their function. 3
6. a) Why DNA is known as genetic material of a cell? 5
- b) Draw a diagram of a unicellular organism.

**PHYSICS PROJECT:**

**Dependence of ‘Pressure on Depth of Liquid’ – Prepare a Project File.**