

## HOLIDAY ASSIGNMENT

### CLASS- VII

#### Assignment-1

#### Physics

1. The range of school lab thermometer is \_\_\_\_\_ to \_\_\_\_\_. [1]
  2. Why is a kink present there in a clinical thermometer? [2]
  3. Give four examples of convection current. [2]
  4. What is the boiling point of water in Celsius scale? Convert it into Fahrenheit scale. [3]
  5. a) What are the advantages of using mercury as thermometric liquid.  
b) Draw a neat labeled diagram of a clinical thermometer. [2+3]
- 

#### Chemistry.

1. Write the symbol of i) Copper ii) Zinc.  $1/2 \times 2 = 1$
2. Write the formula of i) Aluminium Oxide. ii) Ammonia. 2
3. Complete the following chemical equation and Balance it.  
Steam is passed through Red hot iron. 2
4. Define Symbol. Write any two significant of use of symbol of an element. 3
5. Classify the following reactions into different types and give reason.  
a)  $\text{Zn(s)} + \text{FeSO}_4(\text{aq}) \rightarrow \text{ZnSO}_4(\text{aq}) + \text{Fe(s)}$   $2.5 \times 2 = 5$   
b)  $\text{NH}_3(\text{g}) + \text{HCl}(\text{g}) \rightarrow \text{NH}_4\text{Cl}(\text{s})$

#### Biology

1. Name the organism shows both autotrophic and heterotrophic mode of nutrition. 1
2. Give the equation of photosynthesis using chemical formula. 1
3. What is extracellular digestion. Give one example. 2
4. Give the scientific name of bread mould and pin mould. 2
5. Draw a ward sketch of various modes of nutrition. 3
6. Define the following terms. 5  
a) Parasite b) Host c) Vessel d) Chlorophyll e) Symbiotic relationship.

## Assignment-2

### Physics

1. What is the S.I unit of heat? [1]
  2. Why is the mode of heat transfer convection not possible in solid matter? [2]
  3. Write the mode of heat transfer for the following: [2]  
a) Room heater b) Ventilation process in room.
  4. Mention the three possible effects of heat with suitable examples. [3]
  5. Define convection. Explain the formation of land breeze and sea breeze with diagram. [5]
- 

### Chemistry

1. Write the symbol of i) Argon ii) Sulphur.  $1/2 \times 2 = 1$
  2. Write the formula of i) Ferrous Sulphate. ii) Calcium Hydroxide. 2
  3. Complete the following chemical equation and Balance it.  
Potassium hydroxide reacts with sulphuric acid. 2
  4. Define Formula. Write any two significant of use of formula of a compound. 3
  5. Classify the following reactions into different types and give reason.  $2.5 \times 2 = 5$   
a)  $\text{HNO}_3(\text{aq}) + \text{Ca}(\text{OH})_2(\text{aq}) \rightarrow \text{Ca}(\text{NO}_3)_2(\text{aq}) + \text{H}_2\text{O}(\text{l})$   
b)  $\text{MgCO}_3(\text{s}) \rightarrow \text{MgO}(\text{s}) + \text{CO}_2(\text{g})$
- 

### Biology

1. Name the bacteria associated with symbiotic relationship with leguminous plant. 1
2. Give one difference in between fertilizers and manure. 1
3. Differentiate autotrophic nutrition from heterotrophic nutrition. 2
4. Give two functions of stomata. 2
5. Why insectivorous plants eat insects? Give two examples of such plants. 3
6. How leguminous plants make the symbiotic association with the Rhizobium bacteria?  
Why it is beneficial for both? 5

### Assignment-3

#### Physics

1. The mode of heat transfer in fluid is \_\_\_\_\_. [1]
  2. Why do we prefer light coloured dresses than dark during Summer? [2]
  3. Why is the handle of frying pan made up of bakelite? [2]
  4. Write two differences between conduction, convection and radiation with examples of each. [3]
  5. a) Describe the process of conduction through a solid.  
b) Draw the process of convection in case of boiling water and describe it. [5]
- 

#### Chemistry

1. Write the symbol of i)Chromium ii)Lead.  $1/2 \times 2 = 1$
2. Write the formula of i) Nitric acid. ii) Sodium Bisulphate. 2
3. Complete the following chemical equation and Balance it. 2  
 $C_2H_5OH(l) + O_2(g) \rightarrow$
4. What is neutralization reaction? Give two examples. 3
5. Write down the steps of writing the formula of the compounds.  
a)Magnesium Nitrate b)Calcium Phosphate.  $2+2+1=5$   
b) What is a cation?

#### Biology

1. Mention the type of nutrition observe in amoeba. 1
2. What do you mean by ingestion? 1
3. Define the term digestion. 2
4. What is the role of enzyme in digestion ? 2
5. List the various parts of alimentary canal in human. 3
6. Draw a labeled diagram of human digestive system. 5

**PROJET : Prepare a model of human digestive system with the help of clay on ply sheet.**