



**PON VIDYASHRAM GROUP OF CBSE SCHOOLS**  
**ANNUAL EXAMINATION (2017-18)**  
**SCIENCE WORKSHEET**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Roll No: \_\_\_\_\_

Std: VII Sec: \_\_\_\_\_

### HEAT

1. In which mode of heat transfer does the molecules travel from hot to cold portion?
2. What is the difference between heat and temperature?
3. Why alcoholic thermometers are used in Polar Regions?
4. What is known as specific heat capacity?
5. Using the relation between Celsius and Fahrenheit scales find the values of "F" given C=15 and C=45.
6. How do woollen clothes keep us warm during winter?
7. Why does a laboratory thermometer cannot be used to measure body temperature?
8. Write the difference sea breeze and land breeze.
9. How heat loss is reduced in thermos flask?

### ACIDS, BASES AND SALTS

1. What are the acids does the following contain?
  - a. cold drinks-
  - b. apples-
  - c. lemons-
  - d. amla-
  - e. spinach-
2. Mention some general properties of acids and bases.
3. What are the acids present in acid rain?
4. Give the common name for the following
  - a. sodium hydroxide-
  - b. calcium hydroxide-
5. Mention the colour of the following in acidic solution
  - a. litmus-
  - b. turmeric-
  - c. china rose-
  - d. phenolphthalein-
6. Give one example for neutralization reaction.
7. Write the uses of antacid and calamine solution.

### WINDS, STORMS AND CYCLONES

1. Does air expands on heating? Give reason.
2. What safety precautions should be taken during storm and lightening?
3. What is known as convection current?
4. What action should the public take when a cyclone occurs.
5. Air \_\_\_\_\_ on heating and \_\_\_\_\_ on cooling.
6. Define the following
  - A. cyclone
  - b. tornado
7. Why it is not good to sit under metal sheds during lightning?

8. What is an Anemometer?

### **SOIL**

1. What are the inorganic substances present inside the soil?
2. Explain an activity to show that soil contains water.
3. Write a note on B horizon.
4. What are known as nature's ploughman and why?
5. Name the soil that can hold more water.
6. Mention the agents that cause weathering of rocks.
7. What are the agents of soil erosion?
8. Which soil is the best for growing crops and why?

### **ELECTRIC CURRENT AND ITS EFFECTS**

1. Write the difference between closed and open circuit.
2. What are the components of an electric circuit?
3. Draw the symbols for the following
  - a. battery
  - b. switch
  - c. electric bulb
4. What is the function of an electric device.
5. What is known as short circuiting?
6. Define right hand thumb rule.
7. Why does a fuse have low melting point?
8. What are the factors which determine the strength of the magnetic field?
9. How an electromagnet is made? Mention its uses.

### **LIGHT**

1. What is rectilinear propagation of light? Give some example.
2. State the laws of reflection of light.
3. Write the difference between concave and convex mirror.
4. Why headlights of cars have reflectors?
5. Why light cannot be seen through a bent pipe?
6. What is meant by dispersion?

## **BIOLOGY**

### **RESPIRATION IN PLANT AND ANIMALS.**

I. Answer the following question

1. Name the process by which energy is released from the digested food.
2. What happens to your breathing rate when you do exercise?
3. Distinguish between respiration and combustion.
4. How do insect respire?
5. Write two difference between breathing and respiration
6. Draw a neat diagram of respiratory system in human
7. Match the following
  - a) Nasal cavity - covered with membrane called pleura
  - b) Trachea - produced sound
  - c) Lungs - branches to form bronchioles.

- d) Larynx - warms and filters air
  - e) Bronchi - 12 CM long muscular tube
8. What is respiration and mention its types.

### **TRANSPORTATION AND EXCRETION IN PLANTS AND ANIMALS**

1. Draw a neat diagram of structure of heart and label the parts
2. Write the difference between arteries and veins
3. Define blood vessels
4. Mention the significance of blood.
5. What do you mean by Ureoteic animals?
6. Name the vein which carry oxygenated blood
7. Define dialysis
8. State two vital function of kidney
9. What is the composition of urine
10. List the component of blood and mention their function.

### **REPRODUCTION IN PLANTS**

1. Name four modified underground stems which can propagate vegetatively
2. What is binary fission
3. Name an organism which reproduce by budding
4. What is grafting
5. What is pollination
6. What are the different types of pollination found in flowering plants
7. Mention the advantages and disadvantages of cross pollination
8. What is the difference between sexual and asexual reproduction
9. Draw a neat diagram of male and female part of a flower and label it
10. Define layering.

### **NUTRITION IN ANIMALS**

1. Draw a neat diagram of human digestive system and label it
2. Define holozoic nutrition.
3. Mention the difference between ingestion and digestion.
4. How can diarrhea be fatal
5. What is the role of pancreas in digestion?
6. Which chamber in ruminant's stomach is known a true stomach? Why
7. How do the following animals procured their food
  - a) Paramecium
  - b) Hydra
  - c) Butterfly
  - d) Lizard
8. What in the role of stomach in the digestion process.
9. What is the juice secreted by the liver called? What does it do?
10. What is villi?

