

**DELHI PUBLIC SCHOOL, JAMMU**  
**SESSION (2018-19)**  
**ASSIGNMENT SHEET - I**

**Class: VII**

**Subject: Science**

**Multiple choice questions**

1. Solids transfer heat by  
a) conduction  
b) convection  
c) radiation  
d) expansion
2. Chimneys work on the principle of  
a) convection  
b) radiation  
c) conduction  
d) all of these
3. In Celsius scale, the lower fixed point is \_\_\_\_\_ °C  
a) 100  
b) 32  
c) 212  
d) 0
4. If a new substance is formed, the change is called \_\_\_\_\_ change  
a) physical  
b) neutral  
c) chemical  
d) mechanical
5. Magnesium ribbon burns with \_\_\_\_\_ light  
a) white  
b) red  
c) blue  
d) green
6. Dissolving sugar in water is a/an  
a) irreversible change  
b) chemical change  
c) reversible change  
d) permanent change
7. Veins allow blood flow in one direction only due to the presence of  
a) valves  
b) septum  
c) force  
d) thick walls
8. Excretion in earthworms takes place through  
a) nephridia  
b) spiracles  
c) lungs  
d) body surface
9. In plants, water is transported through  
a) phloem  
b) stomata  
c) root hair  
d) xylem
10. Vermicomposting is done with the help of  
a) insects  
b) earthworms  
c) birds  
d) animals
11. The organic impurities present in the sewage are  
a) bacteria  
b) human faeces  
c) phosphorus  
d) nitrates
12. Clarified water is cleared after the removal of  
a) germs  
b) foul smell  
c) sludge  
d) waste

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**ASSIGNMENT SHEET - II**

**Class: VII**

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**Very Short Answer Type Questions**

- 1 Name the two factors on which absorbing power or reflecting power of any substance depends.
- 2 Who invented the first mercury thermometer and in which year?
- 3 What is the range of Celsius scale in Clinical thermometer?
- 4 What type of change is germination of seed?
- 5 Give an example of endothermic reaction with the help of chemical equation.
- 6 What are the two conditions essential for the rusting of iron?
- 7 Name the solid components of blood.
8. Define pericardium.
9. Name an instrument used to measure the blood pressure
- 10 Why are manholes provided at every 50 meters to 60 meters distance in the sewerage?
- 11 Why is it necessary to disinfect water with chemicals like chlorine and ozone?
- 12 Name any two organic impurities present in sewage.

**Short Answer Type Questions I**

1. Explain any two alternative arrangements for sewage disposal.
2. Explain the three harmful effects of sewage.
3. Write down the characteristics of chemical changes.
4. Define ascent of sap. What is the importance of transpiration?
5. Define displacement and decomposition reaction with the help of a chemical equation.
6. Define rusting of iron. How can rusting be prevented?
7. Convert 98.6° F and 77° F to °C.
8. Write two practical applications of convection current.

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**ASSIGNMENT SHEET - III**

**Class: VII**

**Subject: Science**

**SHORT ANSWER TYPE-II**

1. Explain why water is not used instead of mercury in thermometers when it is easily available to us?
2. Describe expansion in liquids on heating.
3. Explain the following chemical reactions with the help of chemical equations.  
a) Combination reaction      b) Decomposition reaction
4. How translocation of food does takes place in plants?
5. Draw a well labeled diagram of human heart.
6. Write down the difference between red blood cells and white blood cells.
7. What is primary sludge? Explain how it is treated?
8. Outline the main steps in sewage treatment?

**LONG ANSWER QUESTIONS**

9. Explain the construction and working of a thermos flask? How does it minimize the loss of heat?
10. Write down the differences between physical and chemical changes.
11. Draw the human excretory system and explain the working of kidneys.
12. What is a wastewater treatment plant? Briefly explain the three stages of sewage treatment plant?