



Name:		Subject:
Class:VII	Topic:	Date:

**I. Answer the following question in detail.**

- Where is bile produced? What component of food does it digest?
- Explain the digestion of food in ruminants?
- What are the properties of a compound?
- Differentiate between formula and symbol.
- Write the formula of calcium carbonate showing the steps involved?
- Balance the equation  

$$\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$$
- Define the following  
 a. Atomicity b. Valency c. Sericulture d. Radiation
- What are factors that decide the quality of wool?
- What are the effects of heat?
- Explain the how heat causes expansion with the help of an experiment?
- What precautions are used for using a clinical thermometer?
- Explain the steps involved in the production of silk?
- Why do woollen clothes keep us warm than cotton clothes?
- Explain one natural phenomenon that occurs due to convection of current in air.
- Write the symbols of following elements and radicals.
- Magnesium b. Zinc c. Sulphate d. Copper e. Nitrate f. Phosphate.
- Convert  $35^{\circ}\text{C}$  to  $^{\circ}\text{F}$
- How does the presence of acid in the stomach help?
- Why room heaters have bright polished surface?
- Why is mercury used as an indicator in a thermometer?
- Write the function of different types of teeth?
- Why are two thin woollen blankets warmer than a thick woollen blanket?
- What are the factors that affect the soil formation?
- Neela took 50ml of water in a measuring jar. She started pouring it over 50g of soil taken in a funnel. Soon the water started dripping from the funnel. 11ml of water was left in the measuring cylinder. What was the percentage of water retained by the soil?

**II. Fill in the blanks using appropriate answers.**

1. The inner wall of the small intestine has fingerlike projection called \_\_\_\_\_
2. Amoeba ingest its food with the help of \_\_\_\_\_
3. The animal that lives on liquid food \_\_\_\_\_
4. The wave like action that helps the muscles to push down the food \_\_\_\_\_
5. The hydrochloric acid in the stomach helps in the digestion of \_\_\_\_\_
6. The partially digested food in ruminants is known as \_\_\_\_\_
7. \_\_\_\_\_ is made up of elements combined together in a fixed ratio
8. The formula of potassium is \_\_\_\_\_
9. The elements present in a molecule of water is \_\_\_\_\_ and \_\_\_\_\_
10. The atom an of element that can exist independently is known as \_\_\_\_\_
11. The formula of Magnesium sulphate is \_\_\_\_\_
12. The complex compound that form animal fibre is \_\_\_\_\_
13. Heat causes increase in \_\_\_\_\_
14. The temperature at which the Celsius and Fahrenheit scale is the same \_\_\_\_\_
15. The temperature scale used for scientific purpose \_\_\_\_\_
16. The temperature range in the Fahrenheit clinical thermometer \_\_\_\_\_
17. The heat of the sun reaches us by \_\_\_\_\_
18. The combining capacity of an element is its \_\_\_\_\_.
19. The transfer of heat in liquids is by \_\_\_\_\_
20. The vacuum present in the thermos flask helps to reduce the flow of heat by \_\_\_\_\_
21. The thermometer used to measure the temperature of boiling water \_\_\_\_\_
22. Decayed organic matter is turned into dark coloured material is called \_\_\_\_\_
23. The water holding capacity is higher in \_\_\_\_\_
24. Loamy soil is a mixture of \_\_\_\_\_
25. Sorters disease is caused by \_\_\_\_\_

Diagrams to practice :

Draw labeled diagrams of (i) Human digestive system (ii) Thermos Flask (iii) Life cycle of Moth (iv) Sea and land Breeze (v) Ingestion of food in amoeba and hydra.

