

Name:  
Class: VIIISubject: Bio. & Chem.  
Date :**Answer the following questions:**

1.
  - a. Which metal is stored in kerosene?
  - b. State the nature of oxides of non-metals.
2. Why do we stain the small components of section, before seeing under the microscope?  
Name a stain.
3. Give two examples of unicellular organisms.  
Name the jelly like substance present between the nucleus and the cell membrane
4. In a chemistry experiment, a student by mistake put some magnesium strips in blue coloured copper sulphate solution. What change will he observe in the colour of the solution? Write the reaction also.
5.
  - a. Write molecular formula of lime water.
  - b. What happens when sulphur di- oxide reacts with water? Give the chemical reaction involved.
6. Define: a. Spontaneous combustion      b. Rapid combustion.
7. In an experiment 4.5 kg of a fuel was completely burnt. The heat produced was measured to be 190,000 kJ. Calculate the calorific value of the fuel.
8.
  - a. Why do birds fly to far away areas?
  - b. Name and write few lines about the protected areas meant for protection of flora and fauna.
9.
  - a. What are endemic species? Give one example.
  - b. What was the objective of Project Tiger?
10.
  - a. What is acid rain? How is it formed?
  - b. Write any three harmful effects of polluted water?
11. What do you understand by the term "Pseudopodia"? Give it's one function.
12. Why generally dry fruits and even vegetables are sold in sealed air tight packets?

13. Mention the causative organism and mode of transmission of the following diseases:

(i) Tuberculosis

(ii) Polio

(iii) Malaria

(iv) Typhoid

14. Give reason:

a. It is necessary to sow seeds at an appropriate depth and distance?

b. Selection of seeds is necessary before sowing

15. The mass number of an element is 18. It contains 7 electrons. What is the number of protons and neutrons?

16. Write balanced chemical equations for the following word equation:

A. Calcium hydroxide + Carbon dioxide  $\longrightarrow$  Calcium carbonate + Water

Skeletal equation: \_\_\_\_\_

Balanced equation: \_\_\_\_\_

17. Write name of the products and reactants in chemical equations given below.

Zinc carbonate(s)  $\longrightarrow$  Zinc oxide(s) + Carbon dioxide(g)