

Name:
Class: VISubject :Science
Date :

1. What will happen if our diet has insufficient amount of calcium and iodine?
2. An overworked computer software engineer works on the computer the whole day. He gets tired after work. Somebody advised him to eat more fats and carbohydrates to get more energy. Do you think this will help him? Why?
3. Students were shown some colour test on a piece of bread as shown. Answer the following questions:
 - (i) Which nutrient is being tested?
 - (ii) Which chemical is being used for this test?
 - (iii) What will be the colour of bread piece after pouring the chemical reagent?
 - (iv) Name two other sources of this nutrient.
4. Burning of paper gives the same smell as burning of cotton. Can you site the reason for the same.
5. Knitting is another name for weaving. Do you agree? Give reason.
6. Distinguish between:
 - (i) Natural and synthetic fibres
 - (ii) Spinning and ginning
7. Which property of filter paper is used to separate an insoluble solid from a liquid?
8. List three properties of a mixtures. Explain why it is necessary to separate a mixture into its constituents.
9. A bottle has either chalk or salt. How will you find out what it has without tasting it?
10. Which apparatus is used to separate two immiscible liquids. Draw its diagram.
11. A cup of tea is said to be a mixture.
 - a. Name its various components.
 - b. What is the general name of the process by which tea leaves are separated from prepared tea?
12. A potter shapes pots out of clay . He then bakes the pots in an oven. Identify the reversible and irreversible changes taking place in the process.
13. Give one use of the expansion of an object on heating.



14. When sugar dissolves in water, it disappears. That means it must have changed into a new substance. Therefore, dissolving is a chemical change. Do you agree? Give reason.
15. Some changes are listed here. For each change, write whether the change can be reversed.
 - a. Sawing of a piece of wood.
 - b. Melting of ice candy
 - c. Cooking of food
 - d. Ripening of mango
 - e. Souring of milk
 - f. Dissolving sugar in water.
16. The S.I units of measurements made everyday life easy and convenient. How?
17. What is translatory motion? Define it giving its types and examples.
18. What is meant by a 'standard unit of measurement'? Why is it necessary to have standard units of measurements? Name the S.I unit of length. Write its symbol.
19. What type of motion is exhibited by
 - a. merry go round
 - b. spinning top
 - c. swinging pendulum
20. State the precautions which should be taken while using a metre scale to measure the length of an object.
21. How is Lunar eclipse different from solar eclipse?
22. Why do birds, kites and aeroplanes flying high in the sky not cast their shadows?
23. What are the three things required to observe a shadow?
24. Name the device in which the image of an object is obtained through very small hole. Also state the principle on which it works.
25. Differentiate between an image and a shadow.
26. Do plants require nitrogen? Why?
27. What is the importance of ozone layer in the atmosphere?
28. Why do sea divers carry oxygen cylinders with them?
29. How will you show that
 - (i) air is present in lump of soil
 - (ii) air is dissolved in water
30. Write the composition of air. Name the component of air (gas) which does not support burning.
31. What are herbs, shrubs and trees? Give two examples each of herbs, shrubs and trees.
32. Name the part of the plant which produces its own food. Which substance gives it a green colour?

33. Small particles produced in the anther are important for reproduction. Name them. Name the part of the pistil which traps these small particles.
34. Observe the picture of an activity (given) carried out with leaves of plants and polythene bag.

Now answer the following questions:

- (a) Which process is demonstrated in this process?
- (b) When will this activity show better results- on a bright sunny day or a cloudy day?
- (c) What will you observe in the polythene bag after a few hours of setting up the activity?
- (d) Mention one precaution you must take while performing its activity.



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35. List different characteristics of living organisms.
36. Write adaptations in plants which help them to survive in aquatic habitat..
37. What is meant by the term 'stimuli' ? Give two examples to show that living things respond to stimuli. One example should be from animals and the other from plants.
38. Explain why mountain trees are cone shaped having sloping branches.
39. What do you mean by water cycle? Describe the water cycle in nature.
40. A material P can exist in three physical states solid, liquid and gas. No living thing on earth can exist in the absence of this material. This material falls from clouds in the form of Q. Lack of Q for long periods in an area may cause R whereas excess of Q may cause S.
- i) What are P, Q, R and S.
- ii) What is the solid state of P known as?
41. Why is an electric cell needed in an electric circuit?
42. A student while making a circuit to make a bulb glow using a dry cell, connected the plastic covering of the wire to the cell, instead of the metal wire inside it. Will current flow in the circuit?
43. How can you show that power of the magnet is negligible at its centre?
44. How does a magnet lose its power?
45. Name and describe an instrument that uses a magnet to find direction.