

SBOA SCHOOL AND JUNIOR COLLEGE CHENNAI - 101

CLASS VIII –SCIENCE

HIGHER ORDER THINKING QUESTIONS

- 1.If you are given a dry piece of land for cultivation what will you do before sowing the seeds?
2. During which months do farmers grow mustard in India?
3. Which activity of the farmer can promote growth of earthworms and microbes in the field?
4. Beera, wants to practice crop rotation in his field. Suggest a *Rabi* crop and a *Kharif* crop which will replenish his field with nitrogen. Which crop replenishes nitrogen and why?
5. It is suggested to have organic foods.Justify the statement.
6. As a part of eco-club activity students were asked to raise a kitchen garden in the school premises. They were provided with some materials given in the box. List the other materials you would require. How will you plan the garden? Write the steps.
khurpi, water-can, spade, shovel
- Note:** You have been asked to use only environment friendly materials.
7. Paddy is a major cereal crop in our country.
 - (a) In which season is paddy cultivated?
 - (b) Discuss the method of sowing.
 - (c) What measures must be taken to prevent spoilage and insect attack of harvested grains.
8. Why should we avoid standing close to a tuberculosis patient while he/she is coughing?
9. Polio drops are not given to children suffering from diarrhoea. Why?
10. Paheli watched her grandmother making mango pickle. After she bottled the pickle, her grand mother poured oil on top of the pickle before closing the lid. Paheli wanted to know why oil was poured? Can you help her understand why?
11. While returning from the school, Boojho ate *chaat* from a street hawker. When he reached home, he felt ill and complained of stomach ache and fell ill. What could be the reason?
12. What will happen to ‘*pooris*’ and ‘unused kneaded flour’ if they are left in the open for a day or two?
13. Give reasons for the following.
 - (a) Fresh milk is boiled before consumption while processed milk stored in packets can be consumed without boiling.
 - (b) Raw vegetables and fruits are kept in refrigerators whereas jams and pickles can be kept outside.
 - (c) Farmers prefer to grow beans and peas in nitrogen deficient soils.
 - (d) Mosquitoes can be controlled by preventing stagnation of water though they do not live in water. Why?

14. Plastic is used for making a large variety of articles of daily use and these articles are very attractive. But it is advised to avoid the use of plastic as far as possible. Why?
15. Burning plastics and synthetic fabrics lead to air pollution .comment.
16. A bucket made of plastic does not rust like a bucket made of iron. Why?
17. Rohit took with him some nylon ropes, when he was going for rock climbing. Can you tell why he selected nylon ropes instead of ropes made of cotton or jute?
18. A lady went to the market to buy a blanket. The shopkeeper showed her blankets made of acrylic fibres as well as made of wool. She preferred to buy an acrylic blanket. Can you guess why?
19. PVC (polyvinyl chloride) is a thermoplastic and is used for making toys, chappals, etc. Bakelite is a thermosetting plastic and is used for making electrical switches, handles of various utensils, etc. Can you write the major difference between these two types of plastics?
20. Write a short note on the importance of synthetic polymers in our lives.
21. Which of the following metals can displace the other two metals from their salt solutions?
zinc, iron, copper
22. Paheli bought a statue made of copper. To her surprise it acquired a dull green coating after a couple of months. Explain the reason.
23. Paheli prepared a blue coloured solution of copper sulphate in beaker A and placed an iron nail in it. Boojho prepared a yellowish green solution of ferrous sulphate in beaker B and placed a copper wire in it. What changes will they observe in the two beakers after an hour?
24. A doctor prescribed a tablet to a patient suffering from iron deficiency. The tablet does not look like iron. Explain.
25. You are provided with a mixture of petroleum and water. Can you suggest a method to separate the two?
26. Sunlight and air are inexhaustible natural resources. Comment.
27. We read in newspapers that burning of fuels is a major cause of global warming. Explain why.
28. Imagine that all the exhaustible natural resources are exhausted by human activities. Do you think survival of living beings would be possible.? If yes,why?
29. Coal reserves are said to be enough to last for another hundred years. Do you think we need to worry in such case? Why or why not?
30. Two glass jars A and B are filled with carbon dioxide and oxygen gases, respectively. In each jar a lighted candle is placed simultaneously. In which jar will the candle remain lighted for a longer time and why?
31. Anu wants to boil water quickly in a test tube. On observing the different zones of the flame, she is not able to decide which zone of the flame will be best for boiling water quickly. Help her in this activity.Give reason.

32. If you hold a piece of iron wire with a pair of tongs inside a candle flame or a Bunsen burner flame, what will you observe? Will it produce a flame?

33. People usually keep *Angethi*/burning coal in their closed rooms during winter season. Why is it advised to keep the door open?

34. You are provided with three watch glasses containing milk, petrol and mustard oil, respectively. Suppose you bring a burning candle near these materials one by one, which material(s) will catch fire instantly and why?

35. Manu was heating oil to fry potato chips. The cooking oil all of a sudden caught fire; he poured water to extinguish the fire. Do you think this action was suitable. Explain.