



**CHAPTER-16**  
**GARBAGE IN, GARBAGE OUT**

**SOLUTIONS:**

**Exercises:**

1. (a) Which kind of garbage is not converted into compost by red worms?

Ans: Garbage which contains broken glass, polythene bags, aluminium foil, bottles, nails, broken toys, old shoes etc. cannot be converted into compost by red worms.

(b) Have you seen any other organism besides red worms, in your pit? If yes, try to find out their names. Draw pictures of these.

Ans: Yes, a pit might contain other soil microbes such as bacteria, small insects, bugs, beetles, spiders etc.



Beetle



Bug

2. Discuss:

- 1) Is garbage disposal the responsibility only of the government?

Ans: No, garbage disposal is not the responsibility of only the government. A lot of waste is generated from homes, offices, schools, hospitals etc. So, it is required that every individual must reduce the production of wastes and help in the proper disposal of these wastes. Every individual must reduce activities that pollute the environment.

(b) Is it possible to reduce the problems relating to disposal of garbage?

Ans: Yes, it is possible to reduce the problems relating to disposal of garbage by taking the following measures: -

- i. Use separate bins for recyclable and non-recyclable waste.
- ii. Avoid using plastic bags.
- iii. Fruits and vegetables peels, tea leaves etc. can be used to make manure.
- iv. Reduce the production of waste .

3.(a) What do you do with the left over food at home?

Ans: Left over food is dumped into compost pits, so that it gets converted into manure after some days.

(b) If you and your friends are given the choice of eating in a plastic plate or a banana leaf platter in a party, which one would you prefer and why?

Ans: We would prefer to eat food in a banana leaf platter because it is harmless and environment friendly. It can be used to make manure by the process of composting.

Q4. (a) Collect pieces of different kinds of paper. Find out which of these can be recycled.

Ans. (a) Paper without plastic coating on it can be recycled.

(b) With the help of a lens look at the pieces of paper you collected for the above question. Do you see any difference in the material of recycled paper and a new sheet of paper?

Ans. (b) Recycled paper appears a little rough whereas new sheet of paper appears smooth.

Q5. (a) Collect different kinds of packaging material. What was the purpose for which each one was used? Discuss in group.

Ans. (a) The different kinds of packaging materials commonly used are:

- (i) Paper packets are used to cover light food items.
- (ii) Plastic cover or bags are used for packaging clothes, dresses.
- (iii) Card boards are used for packaging crockery
- (iv) Wooden boxes are used to pack delicate items.

(b) Give an example in which packaging could have been reduced.

Ans. Packaging of toys and clothes could have been reduced.

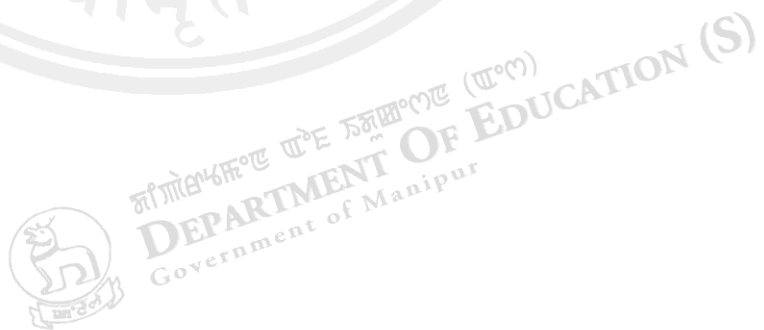
(c) Write a story on how packaging increases the amount of garbage.

Ans. Yesterday was Tom's birthday. He had invited many friends for the party. All his friends had brought gifts for him. When the birthday party was over, Tom sat on a chair and opened each gift to see what was inside. Within no time, his whole room was full of empty cartons, cardboard, boxes, ribbons, plastic covers etc which had been used to pack the gifts. These useless packaging materials increase the amount of garbage.

Q6. Do you think it is better to use compost instead of chemical fertilizers?Why?

Ans. Yes,it is better to use compost instead of chemical fertilizers.

This is because compost is prepared from plant and animal wastes ,therefore it adds natural fertility to the soil.It does not add any harmful substances to the soil,whereas excessive use of chemical fertilizers causes soil and water pollution.



**Extra questions and answers: -**

1. What is garbage?

Ans: Any material that no longer serves a purpose in the house and is thrown away is called garbage.

2. What is landfill?

Ans: Landfill is an area where the garbage collected from a city or town is dumped.

3. Define vermicomposting.

Ans: The method of making compost from kitchen garbage using red worms is called vermicomposting.

4. Name some important items present in domestic wastes.

Ans: Some important items present in domestic wastes are broken toys, old clothes, shoes, slippers, glass, plastic items, rubber, wood etc.

5. Write one advantage and disadvantage of garbage disposal by landfill.

Ans: Advantage – Making a low lying area usable for certain purposes.

Disadvantage – Emission of bad smell and attraction of animals, insects, pests etc.

6. What do you mean by recycling of paper?

Ans: The process of converting useless and discarded paper products into new useful products is called recycling of paper.

**7. Fill in the blanks:**

1. The rotting and conversion of some materials into manure is called composting.

2. Paper can be recycled to get useful products.

3. Redworms have a structure called gizzard.

**8. Write true or false:**

1. We should throw domestic wastes at any place. (False)

2. Garbage has both useful and non-useful components. (True)

3. Redworms do not have teeth. (True)

4. We should burn plastic bags and other plastic items. (False)