

CBSE Worksheet-13
Class-VIII Science (Synthetic fibres and plastics)

1. Which of the following is not a part of 4R's formula :-

- a. reduce
- b. recycle
- c. recover
- d. reinvent

2. Synthetic plastics lead to :-

- a. water pollution
- b. air pollution
- c. solid waste pollution
- d. all the above

3. Rayon is made from :-

- a. wood pulp
- b. bark of the tree
- c. dry leaves
- d. petroleum products

4. Acrylic fibres are advantageous over :-

- a. cotton
- b. wool
- c. silk
- d. jute

5. Match the column :-

Synthetic plastic

- a. Polyethylene
- b. PVC
- c. Polystyrene
- d. Teflon
- e. Melamine

Property/characteristic

- i) quite inert
- ii) lighter than polythene
- iii) high polish polymer
- iv) tougher than polythene
- v) impermeable to water

6. State whether the following statements are true or false :-
- a. A polymer is made up of repeating units called monomers.
 - b. Structure of a polymer can be compared to that of a gemstone in a ring.
 - c. Polymerisation is the process of joining together of polymers to form a monomer.
 - d. Polymers can have a cross- linked arrangement of molecules.
 - e. Cellulose is a synthetic polymer.
7. Why is rayon called a regenerated fibre ?
8. Describe the need for making polymers ?
9. Name the arrangement of small molecules as shown in the below representation.



10. Write the correct words by putting letters in correct sequence-
- i) rlyompe
 - ii) unsiartlro

Answer Key:-

1. d
2. d
3. a
4. b

5. a. v, b. iv, c. ii, d. i, e. iii.

6. true, false, false, true, false.

7. We can describe rayon as a regenerated fibre because the original raw material used for making rayon is cellulose. The cellulose is broken down and then reformed to yield rayon fibers. For this reason rayon is called as a regenerated fibre.

8. Properties of polymers make them very useful. Some of them are:
 - i) they do not corrode or rust.
 - ii) they can be produced in various colours.
 - iii) they can be moulded into different shapes.
 - iv) they are comparatively cheap or inexpensive.
 - v) they are quite strong.

9. The polymers in which smaller molecules are linked to each other in a straight (linear) arrangement such a polymer is called linear polymer.

10. i) polymer
ii) insulator
