
CBSE Worksheet-14
Class-VIII Science (Synthetic fibres and plastics)

1. The purest natural form of cellulose is :-
 - a. rayon
 - b. cotton
 - c. wool
 - d. silk
2. Rayon clothes are comfortable to wear in:-
 - a. winters
 - b. rainy season
 - c. both a & b
 - d. summers
3. The first fully synthetic plastic was :-
 - a. bakelite
 - b. melamine
 - c. teflon
 - d. polythene
4. The non stick coating on pans and other cooking utensils is made from :-
 - a. rayon
 - b. teflon
 - c. melamine
 - d. PVC

5. Match the column :-

Synthetic plastic

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

use/article made

- i) thermocole
- ii) shoes
- iii) combs
- iv) unbreakable dinner set
- v) nonstick cookware

6. State whether the following statements are true or false :-
- a. Rayon is made from methanol.
 - b. Nylon is also known as artificial silk.
 - c. Polyester is prepared from petroleum products.
 - d. Clothes made from acrylic fibres are low in cost than those made from wool.
 - e. PVC is a thermoplastic.
7. Define a thermosetting plastic and give examples.
8. Why has government banned the use of polythene bags ?
9. Pick the odd word out of the following:
Nylon, Teflon, Terrycot, Polyester, Acrylic.
10. Which synthetic fibre is the following cloth made up of ?



Answer Key:-

1. b
2. d
3. a
4. b
5. a. iii, b. iv, c. v, d. i, e. ii.
6. false, false, true, true, true.
7. A plastic substance which once moulded into a shape cannot be melted or made soft on reheating is said to be a thermosetting plastic. Hence these plastics cannot be reprocessed and they can maintain their shape and size even at very high temperatures. For example Bakelite and melamine are thermosetting plastics.
8. Polythenes or plastic bags are non biodegradable i.e. they cannot be decomposed or recycled by the microorganisms. Besides this an improper disposal of polythenes leads to following environmental problems:
 - i) soil and water pollution.
 - ii) Blockage and choking of drains and sewer lines.
 - iii) Death of animals that chew these polythene bags along with any food.
9. Only terrycot is a fibre made by blending polyester with cotton while all others are unblended pure fibres/ plastics.
10. acrylic
