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CBSE-VIII
Chapter-3

Synthetic Fibres and Plastics

Q1. Which synthetic fibre is the following cloth made up of:



Solution: Nylon

Q2. Although rayon is obtained from a natural source, wood pulp, yet it is a man-made fibre. Give reasons.

Solution: Rayon is a manufactured regenerated cellulose fibre. The wood pulp is treated with chemicals and transformed in different form. Then rayon fibre is made out of it. Therefore, rayon is man-made fibre.

Q3. Nylon is used in making many articles. Name four of them.

Solution: Nylon is used in many articles, such as socks, ropes, tents, toothbrushes, car seat belts, sleeping bags, curtains and parachute ropes.

Q4. a) Define polymerization?

b) For making synthetic polymers where from we get small molecules?

Solution:

(a) The process which involves combining of a large number of simple molecules chemically so as to form a giant molecule is known as polymerization.

(b) Small molecules which form long chains of polymers are obtained from petroleum and natural gas.

Q5. What are plant and animal fibers?

Solution:

Plant and animal fibers are natural polymers and obtained from plant and animal sources respectively. Cotton and jute are plant fibers; while, wool and silk are animal fibers.

Q6. What are the advantages of using synthetic fibre?

Solution: Properties of synthetic fibres:

- (i) Cheap and affordable.
- (ii) Wrinkle free. Hence, they do not need ironing and maintenance like natural fibres.
- (iii) Dry quickly.
- (iv) More elastic as compared to natural fibres.

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- (v) More durable as compared to natural fibres.
- (vi) Do not shrink.

Q7. How are plastics good as well as bad to us?

Solution:

Plastics are good because they are light in weight, strong and durable, do not allow heat and electricity to flow through them, non-reactive and cheaper than metals.

Plastics are bad because they are non-biodegradable substances i.e., they do not decompose to harmless substances through the action of air, water and microbes over a period of time hence accumulate and cause pollution.

Q8. How can we contribute to reduce hazards of plastics?

Solution:

We must use plastic products to lesser extent, we must try to recycle and at least reuse the plastic materials, we must use either paper or cloth bags for carrying good instead of using polythene bags, we must create awareness among people about excessive use of plastics etc.

Q9. How did NYLON fabric get this name?

Solution:

Nylon is the first fully synthetic fibre. The name nylon was derived from New York (NY) and London (LON) as it was being produced in New York and London at the same time.

Q10. What are plastics and how are they classified?

Solution:

Plastics are such materials which can be moulded into a desired form. A variety of day to day usable articles are prepared from plastics such as: comb, toothbrush, chair, table, bottle etc.

Like synthetic fibers, plastics are also polymers. Plastics have been classified into two main types: thermoplastic and thermosetting plastics depending upon their ability of getting reprocessed or not.

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