11. Should the handle and bristles of a tooth brush be made of the same material? Explain your answer.
Answer:
No. The handle and bristles of a tooth brush should be made of different materials. The handle of a toothbrush should be hard and strong, while the bristles should be soft and flexible.

12. 'Avoid plastics as far as possible'. Comment on this advice.
Answer:
Plastics are non-biodegradable materials. They take several years to decompose. It is not environment friendly and causes environment pollution. Also burning process of plastics is quite slow. In the process of burning it releases lots of poisonous gas into the atmosphere causing air pollution. Some plastics can't be recycled and so, it is very difficult to finally dispose off such materials. Polythene bags, carelessly thrown in an eating garbage can cause death for the animals like – cows, dogs etc or sometimes even become a cause for clogging of the drains.

Page No: 42

13. Match the terms of column A correctly with the phrases given in column B.

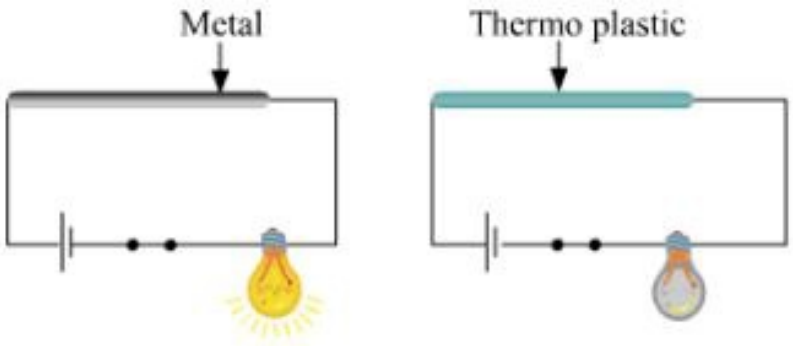
A		B	
(i)	Polyester	(a)	Prepared by using wood pulp
(ii)	Teflon	(b)	Used for making parachutes and stockings
(iii)	Rayon	(c)	Used to make non-stick cookware
(iv)	Nylon	(d)	Fabrics do not wrinkle easily

Answer:

A		B	
(i)	Polyester	(d)	Fabrics do not wrinkle easily
(ii)	Teflon	(c)	Used to make non-stick cookware
(iii)	Rayon	(a)	Prepared by using wood pulp
(iv)	Nylon	(b)	Used for making parachutes and stockings

14. 'Manufacturing synthetic fibres is actually helping conservation of forests'. Comment.
Answer:
The natural fibers are obtained from plants and animals, whereas the synthetic fibers are obtained by chemical processing of petrochemicals. Unlike natural fibers, manufacturing of synthetic fibers do not require to cut trees or hunting of any animal. In this way manufacturing synthetic fibers is actually helping conservation forests.

15. Describe an activity to show that thermoplastic is a poor conductor of electricity.
Answer:
We will design a circuit to see that thermoplastics are poor conductors of electricity. We need a bulb, some wires, a battery, a piece of metal, and a plastic pipe. Set up the circuit first with the metal and then with the plastic pipe (as shown in the figure). After you switch on the current, you will observe that the bulb glows in the former case. In the latter case, the bulb does not glow. Hence, a plastic pipe (which is a thermoplastic) is shown to be a poor conductor of electricity.



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