



Page No: 41

### Exercise

1. Explain why some fibres are called synthetic.

Answer:

Some fibres are called synthetic fibres because they are man-made. These fibres made by the combination of different types of chemicals in industries and their nature are also different in respect of natural fibre

2. Mark the correct answer.

Rayon is different from synthetic fibres because

- (a) it has a silk-like appearance.
- (b) it is obtained from wood pulp.
- (c) its fibres can also be woven like those of natural fibres..

Answer: (b) it is obtained from wood pulp.

3. Fill in the blanks with appropriate words.

(a) Synthetic fibres are also called \_\_\_\_\_ or \_\_\_\_\_ fibres.

(b) Synthetic fibres are synthesised from raw materials called \_\_\_\_\_.

(c) Like synthetic fibres, plastic is also a \_\_\_\_\_.

Answer:

(a) Synthetic fibres are also called artificial or man-made fibres.

(b) Synthetic fibres are synthesised from raw materials called petrochemicals.

(c) Like synthetic fibres, plastic is also a polymer.

4. Give examples which indicate that nylon fibres are very strong.

Answer:

Nylon fibers are very strong thus they are used to prepare ropes for mountaineering. They are also used to prepare parachutes.

5. Explain why plastic containers are favoured for storing food.

Answer:

Plastic containers are favoured for storing food because:

- The plastics do not react with the food stored in them.
- The plastics are light weight and are strong.
- They are easy to handle and safe.
- They are cheap and ductile.

6. Explain the difference between thermoplastic and thermosetting plastics.

Answer:

| Thermosetting plastic  | Thermoplastic                     |
|--|-----------------------------------|
| Thermosetting plastic cannot be bent easily. It may break when forced to bend. | Thermoplastic can be bent easily. |

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| Thermosetting plastic cannot be softened by heating. Thus, it cannot be reshaped once moulded. | Thermoplastic can be softened easily by heating. Thus, it can be reshaped. |
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