



PUBLIC SCHOOL DARBHANGA

SESSION (2020-21)

CLASS-VIII

SYNTHETIC FIRES

WORKSHEET-1

1. Explain why some fibres are called synthetic.

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.

3. Fill in the blanks with appropriate words.

- (a) Synthetic fibres are also called _____ or _____ fibres.
- (b) Synthetic fibres are synthesised from raw material called _____.
- (c) Like synthetic fibres, plastic is also a _____

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

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

6. Explain the difference between thermoplastic and thermosetting plastics.

7. Explain why the following are made of thermosetting plastics.

- (a) Saucepan handles
- (b) Electric plugs/switches/plug boards

ANSWERS:

1. Explain why some fibres are called synthetic.

Soln:

Some fibres are called as synthetic fibers because these are manmade fibers prepared by using chemicals. These are made of small units that join together to form long chains. Some of the examples of synthetic fibres are nylon, rayon, acrylic, polyester etc.

2. Mark the correct answer.

Soln:

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

3. Fill in the blanks with appropriate words.

Soln:

- (a) Synthetic fibres are also called **artificial** or **manmade** fibres.
- (b) Synthetic fibres are synthesised from raw material called **petrochemicals**.
- (c) Like synthetic fibres, plastic is also a **polymer**.

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

Soln:

Following are the examples that indicate nylon fibres are very strong

- Parachutes and ropes of rock climbing are made of nylon
- Nylon is used in making seat belts, fishing nets and tyre cords.
- Nylon is used in making sports accessories like rackets.

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

Soln:

Because plastic is non-reactive and will not react with the ingredients of the food items.

6. Explain the difference between thermoplastic and thermosetting plastics.

Soln:

The difference between the thermosetting plastics and thermoplastics are

Thermosetting plastic	Thermoplastic
Cannot be bent, it will break if we attempt to bend thermosetting plastic	Thermoplastic can be bent easily
On heating thermosetting plastics, it cannot be softened. This is the reason it cannot be reshaped once it is molded.	On heating the thermoplastics, it becomes softened and can be molded and reshaped easily.

7. Explain why the following are made of thermosetting plastics.

(a) Saucepan handles

(b) Electric plugs/switches/plug boards

Soln:

a) Thermosetting plastics are used to make saucepan handles because they are bad conductors of heat and also on heating, these plastics do not get softened.

b) Bakelite is a kind of thermosetting plastic which is a bad conductor of heat and electricity. Because of this property it is used for making electric plugs, switches, plug boards, etc.