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#### STUDY MATERIAL SCIENCE CLASS-VIII

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# Synthetic Fibre & plastics <u>Revision</u>

\* Natural fibres are obtained from plants or animals, while synthetic fibres are mostly polymers of chemical units prepared from petrochemicals.

\*Several types of synthetic fibres are available. They include rayon, nylon, polyester, acrylic and many more.

\*The various types of fibres differ from one another in strength, water absorbing capacity, nature of burning, cost, durability, etc.

\* Plastics have become increasingly important in our everyday lives because they are light, durable and can be easily moulded into various shapes.

\* Plastics are also increasingly being used as a substitute for metals in automobile and aircraft industry because they are lightweight, have greater strength and are resistant to corrosion.

\* Since plastics are highly durable, it makes them almost indestructible and hence creates a problem for the environment.

### \* ASSIGNMENT :

#### 1. Answer the questions.

a. What is the source of raw materials used in the manufacture of synthetic polymers?

b. Why is rayon not considered a synthetic fibre?

c. What are the differences between the thermoplastics and thermosetting plastics?

d. Why are plastics used for covering electric wires and making handles of cooking pans and screwdrivers?

e. Why should plastic bags never be thrown into the garbage bin or the drain?

### 2. Fill in the blanks.

a. All fibres are materials called \_\_\_\_\_.

b. Rayon is usually classified as a \_\_\_\_\_ fibre.

c. Polycot, polywool and polysilk are blends of with cotton, wool and silk, respectively.

d. Acrylics used as a substitute for wool in winter garments are made from a polymer called \_\_\_\_\_,

e. Plastics do not break down into simpler substances when buried in the soil or left in a garbage dump and are classified as \_\_\_\_\_.