

Question:1

Classify the following fibres as natural or synthetic:

Nylon, wool, cotton, silk, polyester, jute

Solution:

Fibres that are obtained from nature, i.e., from plants and animals are called natural fibres and those made by humans by chemical methods are known as synthetic fibres.

Wool and silk are obtained from animals and cotton and jute are obtained from plants. Hence, they are natural fibres. Nylon and polyester on the other hand are prepared artificially and are therefore synthetic fibres.

Question:2

State whether the following statements are 'true' or 'false':

- a) Yarn is made from fibre.
- b) Spinning is a process of making fibres.
- c) Jute is an outer covering of coconut.
- d) The process of removing seeds from cotton is called ginning.
- e) Weaving of yarn makes a piece of fabric.
- f) Silk fibre is obtained from the stem of a plant.
- g) Polyester is a natural fibre.

Solution:

- a) Yarn is made from fibre. (True)
- b) Spinning is a process of making fibres. (False)
- c) Jute is an outer covering of coconut. (False)
- d) The process of removing seeds from cotton is called ginning. (True)
- e) Weaving of yarn makes a piece of fabric. (True)
- f) Silk fibre is obtained from the stem of a plant. (False)
- g) Polyester is a natural fibre. (False)

Question:3

Fill in the blanks:

- (a) Plant fibres are obtained from _____ and _____.
- (b) Animal fibres are _____ and _____.

Solution:

- (a) Plant fibres are obtained from fruits and stems.
- (b) Animal fibres are wool and silk.

Question:4

From which parts of the plant cotton and jute are obtained?

Solution:

Cotton fibres are obtained from the fruit of cotton plants. The fruit of a cotton plant is known as cotton bolls. Jute fibres are obtained from the stem of jute plants.

Question:5

Name two items that are made from coconut fibre.

Solution:

Two items that are made from coconut fibre are:

(i) Ropes

(ii) Baskets

Question:6

Explain the process of making yarn from fibre.

Solution:

The process of making yarn from fibre is called spinning. The fibres are first drawn out from their source and then twisted into yarn. Two devices used in spinning are *takli* and *charkha*.