

Fibre to Fabric

Fill in the blanks: -

1. The fruit of the cotton plant is called _____.
2. Fabrics are made up of _____.
3. Spinning is the process of making _____ to _____.
4. Yarns are made up of _____.
5. Synthetic yarns are mainly made up of _____.
6. A fabric is made by weaving _____ sets of yarns.
7. Cotton has been growing in India for the last _____ years.
8. Jute grows best in _____ soil.

Define the following: -

Spinning-

Shearing-

Weaving-

Ginning-

Combing-

Looms-

Retted-

Spinneret-

Tick the correct option

1. Which country is the largest producer of wool in the world?
a. India b. Australia c. New Zealand d. China
2. Which state is the largest producer of coir in India?
a. Haryana b. Andhra Pradesh c. Kerala d. Odisha
3. This fibre is known for its strength, durability and biodegradability.
a. Jute b. Cotton c. Wool d. Fur
4. Jute grows primarily in which areas in India

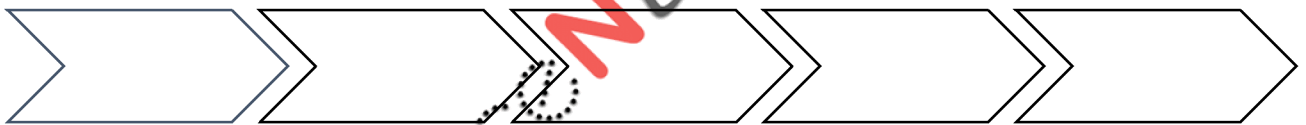
- a. Coastal areas of Kerala and Tamil Nadu
- b. Sunderband Delta and West Bengal
- c. Haryana and Rajastha
- d. Backwaters of Kerala only
5. Which country is the largest producer of Jute in the world?
- a. Bangaldesh b. India c. Malaysia d. Indonesia
6. Below are the steps of processing jute. Put them in correct order in the boxes below.
- a. Fibre is hung and spread out to dry
- b. Stalks of the plant are tied in bundles and retted
- c. The fibres are tied into bundles for transport
- d. The fibres are stripped from the stalks and washed in running water
7. Which of the following is not a determining factor while selecting the fabric.
- a. Gender b. Climate c. Occupation d. Region
8. Which process separates cotton fibres from seeds?
- a. Spinning b. Ginning c. Weaving d. Knitting
9. What is the main property of jute?
- a. Soft and breathable b. Smooth and shiny c. Coarse and strong d. Elastic and stretchy
10. Which synthetic fibre is known for its elasticity?
- a. Nylon b. Polyester c. Spandex d. Silk

Question- Answers

1. Write a short note on how early humans used to dress.
2. Name the four main materials from which clothes are made today.
3. Aruna works as a chef and always wears a white chef coat made of cotton. Explain why cotton is better material for a chef's coat than synthetic?
4. Name two plant-based fibers.
5. Name two items which are made from coconut fibre.

6. Most of the readymade garment manufacturers, making formal shirts, prefer mixing this fibre in their fabric. Identify the fibre and mention the property and the reason which makes it preferable amongst the readymade garment manufacturers.
7. What are synthetic yarns and what are they made of?
8. What are looms? Name two types of looms.
9. W is fed leaves of Y tree. It spins a long thread around its body called X. The thread extracted is called Z.
 - a. Identify W, X, Y, Z.
 - b. Z is plant-based fiber or animal based?
 - c. What is the rearing of W called?
 - d. What is the texture of the cloth made with Z.
 - e. Why animal activist protest against Z.
10. What is the difference between knitting and weaving.
11. Name two animal-based fibers.
12. Explain the process of making cotton fabric from cotton bolls.
13. How is jute processed before it is made into fabric?
14. List the steps involved in converting yarn into fabric.
15. Name two materials which are used for making clothes but are not fibers. Mention the source of these materials.
16. P is a plant fibre obtained from the fibre surrounding the seed of the Q tree which grows in R and S countries. The seed of Q tree gives us oil.
 - a. Identify the P, Q, R, S.
 - b. What are the other uses of P?
 - c. What is the oil of the seed used for?
17. Why is the process of retting important in jute processing?
18. Mention two processes of making fabric from yarn.
19. Namish is a farmer and has fertile alluvial soil. The climate is warm and gets moderate rainfall.
 - a. Which crop should he grow?
 - b. In which part of India do you think his land is?
 - c. In which month should he sow the seeds?
20. Why wool is ideal for winter season?
21. Explain with an example how fabric is chosen as per the occupation.
22. What is the difference between the fibre and yarn?

23. In a region with abundant rainfall and high humidity, which fibres (natural or synthetic) would be the most suitable for clothing, and why? Discuss how the local climate influences the choice of fibre.
24. Compare and contrast natural and synthetic fibres. Discuss their properties, uses, and environmental impacts.
25. Why is synthetic yarn inflammable?
26. Ranit is a sportsperson and Varun works in an MNC. Which kind of fabric they should choose to wear and why?
27. What is silk route?
28. Below are the steps of processing wool. Put them in correct order in the boxes below.
- Wool is packed into bales and transported to mills
 - It is separated and spun into fiber
 - It is cleaned and combed by machine
 - It is woven or knitted
 - Wool is removed from the sheep



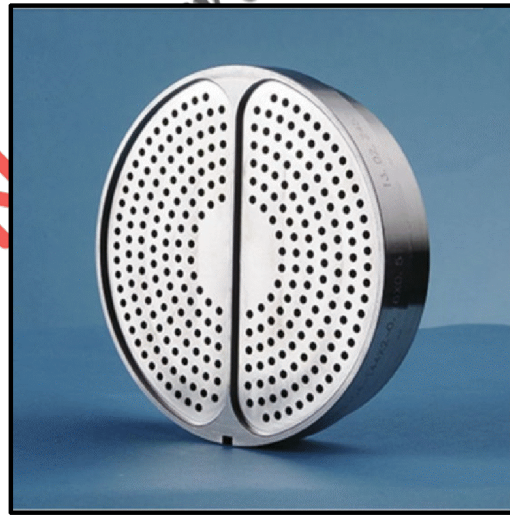
Answer in one-word

- Name the fiber which grows around the seed, found inside the fruit of the plant- _____
- Used for separating cotton fibres from the seed - _____
- Used for making denim- _____
- Silk was first developed in this country 5000-8000 years ago. _____
- This fiber resistant to damage by salt water. _____
- The stem of this plant is used for making fiber- _____
- This fibre is obtained from fibrous outer shell of coconut- _____
- Denim is made using plant-based fibre- _____
- This fibre is obtained from the fruit of the kapok tree- _____
- Man-made fibre using chemicals- _____

Write true or false and correct the incorrect statement: -

1. Coir is used for making door mats and sacks because it is durable.
2. Silk was first developed in India 2000-3000 years ago.
3. Jute is long, soft and fluffy fibre.
4. The Silk Route was an ancient trade route that helped trade silk.
5. Egypt cultivated cotton and jute near the river Nile.
6. Jute is a natural fibre that grows in black soil.
7. Spinning is the process of creating fabric from yarn.
8. Wool is passed through spinneret and made into yarn.
9. Jute is also cultivated in Assam and Bihar.
10. Hemp and flax are animal fibres.

Recognise the image





Match the following fibres with their correct properties or uses:

1. Cotton

- A. Coarse and strong
- B. Soft and breathable
- C. Luxurious and smooth

2. Wool

- A. Elastic and stretchy
- B. Warm and moisture-wicking
- C. Known for its sheen

3. Silk

- A. Warm and insulating
- B. Used for formal wear
- C. Grown in black soil

4. Jute

- A. Strong and coarse
- B. Smooth and shiny
- C. Breathable and soft

5. Nylon

- A. Strong and stretchy
- B. Coarse and strong
- C. Luxurious and smooth

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