



CHEMISTRY

BOOKS - HT Olympiad Previous Year Paper

FIBRE TO FABRIC

Multiple Choice Questions

1. Consider the following statements (i-v) and select the option that correctly identifies true

(T) and false (F) ones.

(i) Angora wool is obtained from Angora sheep.

(ii) Spinning is the process of changing fibre into yarn. Sisal fibre is obtained from the fruit of the plant.

(iv) The process of removing hair from the sheep is called shearing.

(v) Hemp fibres are obtained from the stem of the hemp plant.

	(i)	(ii)	(iii)	(iv)	(v)
(A)	F	T	F	T	T
(B)	T	F	F	T	T
(C)	F	F	T	T	T
(D)	F	F	F	T	T

A. A

B. B

C. C

D. D

Answer: A



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2. Read the given statements and select the correct option.

Statement 1: Cotton is a preferred fabric to

wear in summers.

Statement 2: It has good absorbency and allows air to pass through it.

A. Both statements 1 and 2 are true and statement 2 is the correct explanation of statement 1.

B. Both statements 1 and 2 are true but statement 2 is not the correct explanation of statement 1.

C. Statement 1 is true but statement 2 is false.

D. Both statements 1 and 2 are false.

Answer: A



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3. Select the option that correctly fills the blanks in the given sentences.

(a) ___(i)___ of a flax plant provides fibres.

(b) ___(ii)___ is the cheapest natural fibre and

often called as the "golden fibre".

(c) The process of separating cotton fibres from cotton seeds is called ___(iii)___.

(d) ___(iv)___ is obtained by spinning together a bunch of fibres.

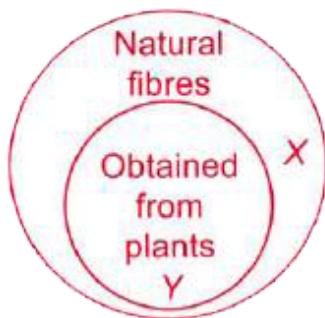
(e) ___(v)___ is a blended fabric.

	(i)	(ii)	(iii)	(iv)	(v)
(A)	Seed	Jute	Ret- ting	Fabric	Poly- ester
(B)	Stem	Cot- ton	Ret- ting	Yarn	Rayon
(C)	Seed	Cot- ton	Gin- ning	Fabric	Terry- cot
(D)	Stem	Jute	Gin- ning	Yarn	Terry- cot



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4. Identify X and Y in the given Venn diagram and select the correct option.

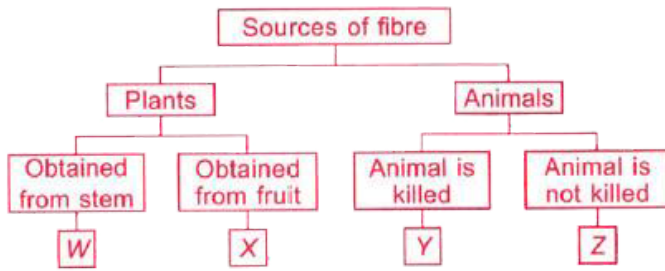


- | | X | Y |
|-----|-----------|-------|
| (A) | Cotton | Silk |
| (B) | Polyester | Coir |
| (C) | Wool | Jute |
| (D) | Linen | Nylon |



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5. Refer to the given flow chart and select the correct option.



- (A) X – Sisal, Y – Silk
 (B) W – Cotton, Y – Silk
 (C) W – Linen, Z – Wool
 (D) X – Jute, Z – Flax

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6. Refer to the given paragraph and select the correct option regarding X, Y and Z. The process of making yarn from fibres is called X. Yarn are used for making fabrics. Two main processes are used to make fabrics from yarn.

In process Y, two sets of yarn are arranged together to make a fabric while in process Z single yarn is used to make a piece of fabric.

A. X: Knitting, Y: Spinning, Z: Weaving

B. X: Spinning, Y: Weaving, Z: Knitting

C. X: Weaving, Y: Spinning, Z: Knitting

D. X: Spinning, Y: Knitting, Z: Weaving

Answer: B



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7. If P represents the fibre and Q represents the fabric, find out the correct order in which Q is made from P.

A. P, Weaving, Spinning, Obtained from source, Yarn, Q

B. P, Obtained from source, Spinning, Weaving, Yarn, Q

C. P, Obtained from source, Spinning, Yarn, Weaving, Q

D. None of these

Answer: C



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8. Match column I with column II and select the correct option from codes given below.

Column I	Column II
(i) Ginning	(a) Disentangling of the cleaned fibres
(ii) Retting	(b) Rotting of the stem to soften the tissue
(iii) Carding	(c) Bolls
(iv) Seed pods	(d) Cotton fibres after being separated from seeds
(v) Lint	(e) Separating fibres from seed

A. (i)-(e), (ii)-(b), (iii)-(a), (iv)-(c), (v)-(d)

B. (i)-(d), (ii)-(e), (iii)-(b), (iv)-(a), (v)-(c)

C. (i)-(e), (ii)-(a), (iii)-(b), (iv)-(c), (v)-(d)

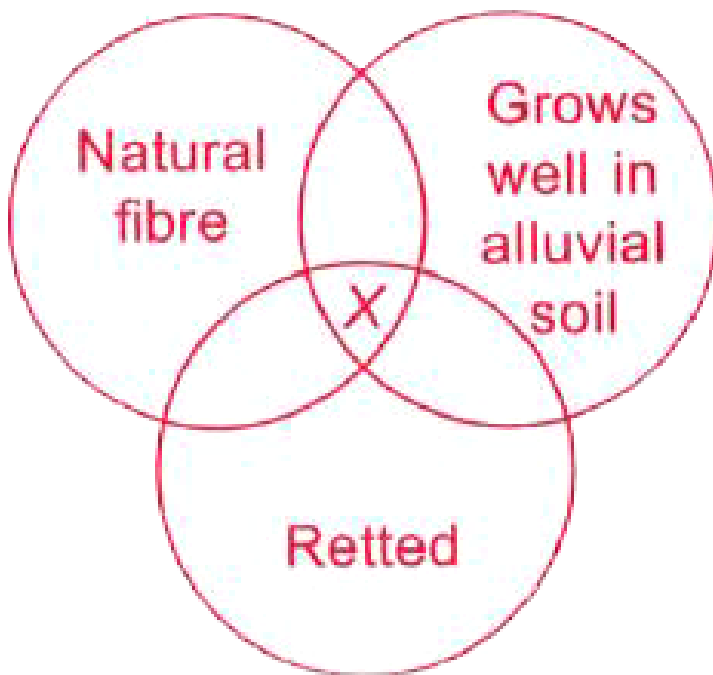
D. (i)-(d), (ii)-(a), (iii)-(b), (iv)-(c), (v)-(e)

Answer: A



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9. Identify X in the given Venn diagram.



A. Silk

B. Wool

C. Polyester

D. Jute

Answer: D



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10. Read the given passage where some of the words have been italicised.

Cotton plant is an annual shrub. It grows best

in cold climate. Black soil is best suited for the cultivation of cotton plant. The stems of cotton plant are called cotton bolls. The cotton fibres along with seeds are picked from the cotton bolls by hand. After picking, the fibres are separated from the seeds by a process called ginning. Select the correct option regarding this.

A. Annual should be replaced by biennial
and stems should be replaced by roots.

B. Cold should not be replaced as it is correctly mentioned.

C. Black should be replaced by red and stems should be replaced by fruits.

D. Ginning should not be replaced as it is correctly mentioned.

Answer: D



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11. The thin strands of _____ that we see, are made up of still thinner strands called _____ .

A. Fibre, Fabrics

B. Fabric, Yarn

C. Fibre, Yarns

D. Yarn, Fibres

Answer: D



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12. Refer to the given groups (i)-(iv). Each group contains one wrong member. Identify the odd members and select the correct option

(i) Flax, Hemp, Wool, Silk cotton

(ii) Cotton, Jute, Flax, Hemp

(iii) Polyester, Nylon, Acrylic, Silk

(iv) Shahtoosh, Angora wool, Silk, Coir

	(i)	(ii)	(iii)	(iv)
(A)	Silk cotton	Hemp	Acrylic	Shahtoosh
(B)	Flax	Jute	Nylon	Silk
(C)	Wool	Cotton	Silk	Coir
(D)	Hemp	Flax	Nylon	Angora wool



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13. Which of the following is the correct difference between weaving and knitting?

A. Weaving is done with machine while knitting is done with hand only.

B. Weaving uses two sets of yarn while knitting involves only one yarn.

C. Weaving is done for silk only while knitting is done for wool only.

D. All of these

Answer: B



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14. Sakshi wanted to test the quality of her dupatta. She pulled a small strand of yarn from the dupatta and burned it. It smelled like a burning paper. She inferred that the dupatta is made of pure

A. Wool

B. Cotton

C. Silk

D. None of these.

Answer: B



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15. Select the incorrect match.

- | | | |
|---------------|---|---------|
| (i) Cotton | - | Retting |
| (ii) Jute | - | Ginning |
| (iii) Sliver | - | Combing |
| (iv) Spinning | - | Takli |
| (v) Knitting | - | Loom |
| (vi) Weaving | - | Charkha |

A. (i), (ii), (v) and (vi) only

B. (iv), (v) and (vi) only

C. (ii), (iii) and (v) only

D. (iii), (iv) and (v) only

Answer: A



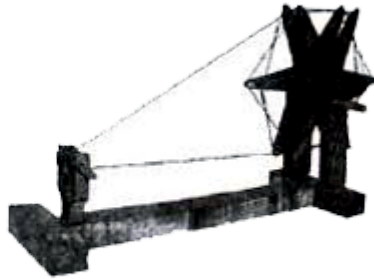
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Achievers Section Hots

1. Refer to the given figures, X and Y and select the correct statement regarding them.



X



Y

A. X is used in spinning while Y is used in weaving.

B. Both X and Y are used in the process of twisting fibres to make yarn.

C. X is used in weaving while Y is used in knitting

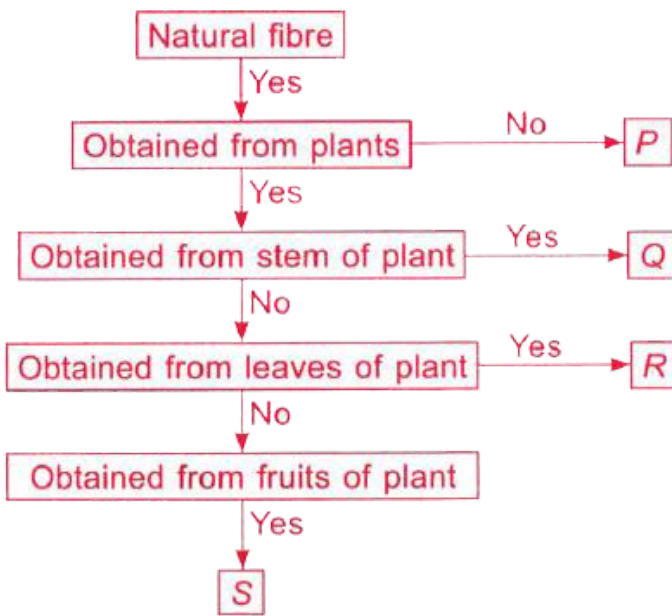
D. Both X and Y are used in the process of making fabric from two sets of yarns.

Answer: B



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2. Refer to the given flow chart and select the incorrect statement regarding P, Q, R and S.



A. P could be protein fibre whereas Q, R and S could be cellulosic fibres.

B. Retting is involved in processing of Q whereas ginning is involved in processing of S.

C. P could be wool, Q could be jute, R could be sisal and S could be cotton.

D. Fabrics made from P and S are excellent winter clothing whereas fabrics made from Q and R form excellent summer clothing.

Answer: D



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3. Different steps involved in processing of fibres are given below.

(i) Spinning

(ii) Weaving

(iii) Ginning

(iv) Scouring

(v) Retting

Select the option that correctly identifies the steps that are involved in processing of cotton

A. (i), (ii) and (v) only

B. (ii), (iii) and (iv) only

C. (i), (ii) and (iii) only

D. (iv) and (v) only

Answer: C



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4. Refer to the given dichotomous key and select the incorrect statement regarding P, Q, R, S and T.

(i) (a) It is a natural fibre - Go to (ii)

(b) It is a man-made fibre. - P

(ii) (a) Fibre is obtained from plants. - Go to

(iii)

(b) Fibre is obtained from animals, - Go to (iv)

(iii) (a) Fibre obtained from stem. - Q

(b) Fibre obtained from fruit. - R

(iv) (a) Fibre obtained by killing of source organism. - S

(b) Fibre obtained without killing source organism. - T

A. Fibre of P burns quickly and shrinks away

from flame giving slightly sweet chemical

odour.

B. Q could be obtained from *Corchorus capsularis* while R could be obtained from *Gossypium hirsutum*.

C. Fibre S is obtained from an insect whereas fibre T is obtained from a mammal.

D. Fabric made of S can be worn in all seasons whereas fabric made of Q can be used to make a raincoat.

Answer: D



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5. Read the following characteristics of a fibre and identify it.

(i) It is a natural breathable fabric, i.e., the air can pass in and out through its fibres. Each fibre is made up of 20-30 layers of coiled cellulose springs.

(iii) It has moisture absorbing quality and is used to make good quality clothes.

(iv) It has natural twist that makes it suitable for spinning.

A. Jute

B. Cotton

C. Wool

D. Nylon

Answer: B



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