

Roll No.

Total Pages : 3

8360

BT-3/DX
TEXTILE RAW MATERIALS
Paper : TT-203

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt *five* questions in total. Section-A is compulsory.
Answer exactly *one* question from each of the remaining
four Sections B, C, D and E.

SECTION-A (Compulsory)

1. Select the correct answer.

- (a) Which is the maximum wool producing countries in the world ?
(i) India (ii) Australia
(iii) New Zealand (iv) USA.
- (b) King of fibre is
(i) Cotton (ii) Polyester
(iii) Silk (iv) Wool.
- (c) Which of the chemicals is not used for production of Viscose rayon ?
(i) Carbondisulphide (ii) Sulfuric acid
(iii) Sodium hydroxide (iv) Acetic acid.
- (d) Which one is a seed fibre ?
(i) Coir (ii) Jute
(iii) Cotton (iv) Sisal.

(e) Which is the strongest fibre ?

- (i) Cotton (ii) Silk
(iii) Polyester (iv) Acrylic.

(f) Name of disulphide linkage in wool.

- (i) Glycine (ii) Keratin
(iii) Cystine (iv) Fibroin.

(g) Which of the following is not a process in silk yarn production ?

- (i) Reeling (ii) Throwing
(iii) Shearing (iv) Weighting.

(h) Carrier is used for dyeing of

- (i) Silk (ii) Nylon
(iii) Polyester (iv) Cotton.

(i) Crease-resistant finish can be applied on cellulosic fabric with.

- (i) Sodium hypochlorite (ii) Ammonium acetate
(iii) Urea-formaldehyde (iv) Sodium phosphate.

(j) Lycra is a trade name of

- (i) Polyester fibre (ii) Polyurethane fibre
(iii) Polyamide fibre (iv) Polyacrylonitrile.

SECTION-B

2. Discuss the cultivation process & chemical properties of cotton fibres. Describe the chemical composition & physical structure of jute & flax fibres. 5+5
3. What is Reeling of silk & how is it done ? Define Fibres, Filaments and Yarns with examples. Discuss sheep rearing along with the impurities present in wool fibres. 4+3+3

SECTION-C

4. What are the advantages & disadvantages of Manmade fibres over Natural fibres ? Discuss the manufacturing process of viscose rayon fibres. Discuss the uses of polyester, nylon & polypropylene fibres. 2+4+4
5. Discuss the production & properties of Poly-propylene and Spandex fibres. Compare different fibre/filament spinning methods. 6+4

SECTION-D

6. Describe application procedure & mechanism of reactive dyes of cotton fabric. Discuss a continuous dyeing range. 6+4
7. Classify Textile finishes. Discuss theory and practice of crease resistant and water proof finishes. 2+8

SECTION-E

8. What points are to be considered during sourcing & purchasing a dye ? Mention some producer & suppliers of dyes abroad. 7+3
 9. Give cost comparisons of different natural and manmade fibres. Why the cost of natural fibres are not very stable ? Name some major producers of polyester & acrylic fibres. 6+2+2
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