

AU-1132

M.Sc. (Home Science) (Textile and Clothing) Semester-I Examination

114TC46 : TEXTILE CHEMISTRY

Time : Two Hours]

[Maximum Marks : 45

Note : — (1) Attempt **all** questions.

(2) All questions carry equal marks.

(3) Draw diagrams wherever necessary.

1. Write as directed :

- | | | |
|-----|---------------------------------------|---|
| 1.1 | Define polymer. | 1 |
| 1.2 | Types of polymer. | 2 |
| 1.3 | Enlist the methods of polymerization. | 2 |
| 1.4 | Define polymerization. | 2 |
| 1.5 | What is textile chemistry ? | 2 |

2. Do as directed :

2.1. Fill in the blanks with given words.

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|-------|---|---|---|
| 2.1.1 | The cotton fiber is ____ fiber. | (Cellulose, protein, regenerated) | 1 |
| 2.1.2 | Silk fiber is produced by ____ . | (Mulberry leaves, silkworms, animal) | 1 |
| 2.1.3 | _____ manufacturing process is used in acetate rayon fiber. | (Dry spinning, wet spinning, melt spinning) | 1 |

2.2	Write on :	
2.2.1	Molecular structure of cotton fiber.	2
2.2.2	Properties of wool fiber.	2
2.2.3	Felting of wool.	2
3.	Answer any one :	
3.1	Write in detail properties and uses of different blended fibers.	9
3.2	Explain manufacturing process of Nylon fiber with their properties.	9
4.	Do as directed :	
4.1	Match the pairs :	
4.1.1	Pigment [] (A) Insoluble in water	1
4.1.2	Direct dye [] (B) Polyester fiber	1
4.1.3	Natural dye [] (C) Soluble in water	1
4.1.4	Disperse dye [] (D) Binder	1
4.1.5	Vat dye [] (E) Marigold flower	1
4.2	Write on :	
4.2.1	Application of pigments.	2
4.2.2	Soluble and Insoluble dyes.	2
5.	Answer any one :	
5.1	Write in detail preparation of fabric for printing with their style of printing.	9
5.2	Write in detail methods of printing.	9