



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Master's Degree Examination – June / July 2021

II Semester

Class : I PG
Major : Bio textiles

Time : 3 Hours
Max. Marks: 100

20MBXC08 Textile Processing and Effluent Treatment

Part A

10 x 1 = 10

Choose the Correct Answer

1. Lustre is imparted through
a. Scouring b. Bleaching c. Mercerization d. Degumming CO1K3
2. Hydrophobic matters are removed by the process of
a. Desizing b. Scouring c. Mercerizing d. Bleaching CO1K2
3. Cylindrical screens are used in
a. Roller printing b. Rotary printing c. Roller printing d. Screen printing CO2K2
4. Identify high molecular compounds that make the print paste of correct viscosity
a. Swelling agents b. Carriers c. Thickeners d. Solvent CO2K3
5. The process of removing vegetable matter from wool is
a. Weighting b. Crabbing c. Decating d. Carbonizing CO3K1
6. Flat, lustrous effect is imparted by pounding linen and the process is known as
a. Schrenerizing b. Moiering c. Beetling d. Ciering CO3K2
7. Name the measure of the degree to which the water loses its transparency due to the presence of suspended particulates.
a. TDS b. pH c. Turbidity d. COD CO4K1
8. The heavy metal content is high in effluent from-----
a. Sizing b. Desizing c. Mercerizing d. Finishing CO4K3
9. Name the enzyme used in effluent treatment.
a. Cellulase b. Lipase c. Laccase d. Glucose oxidase CO5K1
10. Activated carbon treatment is a
a. Primary treatment b. Secondary treatment c. Tertiary treatment d. Advanced treatment CO5K1

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

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| 11.a. Classify dyes. | | CO1K2 |
| | (or) | |
| 11.b. Represent the sequence of preparatory processing. | | CO1K2 |
| 12.a. Describe the after treatments for printed fabrics. | | CO2K2 |
| | (or) | |
| 12.b. Discuss the emerging techniques in printing. | | CO2K2 |
| 13.a. Why is weighting of silk necessary? How is weighting imparted? | | CO3K3 |
| | (or) | |
| 13.b. Outline the importance of crease recovery finish. | | CO3K2 |
| 14.a. Describe the characteristics of effluent from sizing. | | CO4K2 |
| | (or) | |
| 14.b. Indicate the BIS limits for pH, TDS, TSS , BOD and COD | | CO4K2 |
| 15.a. Report on the advance waste water treatments. | | CO5K2 |
| | (or) | |
| 15.b. Explain the primary waste water treatments. | | CO5K1 |

Part C
Answer ALL questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

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| 16.a. Elaborate the functioning of various types of dyeing machines | | CO1K2 |
| | (or) | |
| 16.b. Enumerate on the stages of dyeing | | CO1K1 |
| 17.a. Explain the resist technique of printing | | CO2K2 |
| | (or) | |
| 17.b. Outline about the following printing techniques | | |
| i. Digital printing ii. Photo printing iii. Transfer printing | | CO2K3 |
| 18.a. Write about the need and process of UV protective and Water repellent Finishes. | | CO3K3 |
| | (or) | |
| 18.b. Explain any three basic finishes. | | CO3K2 |
| 19.a. Compare the characteristics of effluents from scouring , bleaching and dyeing. | | CO4K4 |
| | (or) | |
| 19.b. Review the various effluent parameters in textile processing. | | CO4K2 |
| 20.a. Write about the various secondary waste water treatments. | | CO5K2 |
| | (or) | |
| 20.b. Explain the tertiary treatments in waste water treatments. | | CO5K2 |
