



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 : IDRM / FSN/ FSMD/ Mathematics/MCA/ IT

Time : 3 Hours
Max. Marks: 100

20MTFI01 IDC - Fundamentals of Textiles

Part A

10 x 1 = 10

Choose the Correct Answer

- _____ fiber is composed of pure cellulose. CO1K1
a. Cotton b. Nylon c. Polyester d. Silk
- _____ is a protein fibre. CO1K2
a. Cotton b. Polyester c. Silk d. Rayon
- When two or more strands or yarns are twisted together, they are called as _____. CO2K3
a. Ply yarns b. Flake yarns c. Spiral yarns d. Slub yarns
- _____ is the process of converting the fibre into yarn. CO2K2
a. Knitting b. Weaving c. Spinning d. Roving
- The process of paralleling and straightening of the individual fibers in a more exact degree is _____. CO3K3
a. Carding b. Combing c. Roving d. Drawing
- _____ is the methods of bonding fibres together without weaving or knitting. CO3K3
a. Spun bonded b. Melt blown
c. Needle punching d. Thermal bonded
- Fibre stage dyeing is also known as _____. CO4K2
a. Stock b. Yarn c. Garment d. Dope
- This type of printing uses screens or mesh. CO4K3
a. Inkjet b. Screen c. Stencil d. Block
- Nets for crop protection is an example for _____. CO4K4
a. Protech b. Geotech c. Mobiletech d. Agrotech
- Example for medical textile material is _____. CO4K4
a. Draperies b. Bandages c. Seed protectors d. Military uniforms

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

5 x 6 = 30

- | | |
|---|--------|
| 11.a. Write a short note on fibers and its classification. | CO1 K1 |
| (or) | |
| 11.b. Discuss about the primary properties manmade fibres. | CO1 K1 |
| 12.a. Define Yarn Count and explain types of yarn twist. | CO2 K1 |
| (or) | |
| 12.b. What is the difference between blends and mixtures. . | CO2 K1 |
| 13.a. List the woven structures with suitable figures. | CO3 K2 |
| (or) | |
| 13.b. Discuss about warp knitting | CO3 K2 |
| 14. a. Describe Bleaching process and mention its purpose. | CO4 K3 |
| (or) | |
| 14.b. Distinguish Natural and Synthetic dyes | CO4 K3 |
| 15.a. List the uses of Home textiles. | CO5 K4 |
| (or) | |
| 15.b. Define Geo textiles and mention its applications. | CO5 K1 |

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

5 x 12 = 60

- | | |
|---|--------|
| 16.a. Explain briefly about the properties and manufacturing process of cotton fiber. | CO1 K2 |
| (or) | |
| 16.b. Explain the differences between cellulosic and synthetic fibres. | CO1 K2 |
| 17.a. Write a detailed note on Yarn Classification. | CO2 K2 |
| (or) | |
| 17.b. Discuss about Sewing thread in detail. | CO2 K2 |
| 18.a. Elaborate the fundamental operations of weaving. | CO3 K3 |
| (or) | |
| 18.b. Explain the types of Non wovens. | CO3 K3 |
| 19.a. Describe the methods of dyeing. | CO4 K4 |
| (or) | |
| 19.b. Give the classify the Printing methods and explain it. | CO4 K4 |
| 20.a. Enumerate the application of Medical Textiles | CO5 K4 |
| (or) | |
| 20.b. Elaborate the types of Agro textiles. | CO5 K4 |