



5. Which of the following is a thin, translucent fabric with a loose open weave (CO3, K1)
- (a) Pique (b) Gauze  
(c) Welt (d) Wadded
6. In bedford cords the rib effect is produced by alternating plain weave with the cord (CO3, K1)
- (a) on alternate picks (b) pair of picks  
(c) either a or b (d) None of the above
7. How many sets of yarns are used to weave a corduroy fabric? (CO4, K1)
- (a) 2 (b) 3  
(c) 4 (d) 5
8. Which of the following is also called velveteen? (CO4, K1)
- (a) Warp pile (b) Weft Pile  
(c) extra figuring (d) Backed fabric
9. Identify the warp knit structure (CO5, K1)
- (a) Rib (b) Purl  
(c) Interlock (d) Raschel
10. When a needle already holding a loop receives a further loop it is (CO5, K1)
- (a) Knit stitch (b) Tuck stitch  
(c) Float stitch (d) None of the above

**Part B**

(5 × 5 = 25)

Answer **all** the questions not more than 500 words each.

11. (a) Describe the following
- (i) Repeat unit
  - (ii) Draft plan (CO1, K1)

Or

- (b) Summarize about the construction of Mat and Huck a back weave. (CO1, K2)

12. (a) Explain the crepe weave. (CO2, K2)

Or

- (b) Summarise about application of colour. (CO2, K2)

13. (a) Explain double cloth weave. (CO3, K2)

Or

- (b) Distinguish between reversible and irreversible fabrics. (CO3, K4)

14. (a) Explain about corduroy fabrics. (CO4, K2)

Or

- (b) Explain about twill back velveteen. (CO4, K2)

15. (a) Classify knitting. (CO5, K2)

Or

- (b) Compare knit and float stitches. (CO5, K2)

**Part C**

(5 × 8 = 40)

Answer **all** the questions not more than 1000 words each.

16. (a) Discuss about Twill weave and its derivatives.  
(CO1, K6)

Or

- (b) Distinguish between satin and sateen weave.  
(CO1, K4)

17. (a) Discuss about colour and weave effects. (CO2, K6)

Or

- (b) Elaborate on ordinary and brighten honey comb.  
(CO2, K6)

18. (a) Explain plain and twill faced Bedford cords.  
(CO3, K2)

Or

- (b) Outline about welts and piques. (CO3, K2)

19. (a) Elaborate on warp pile fabric. (CO4, K6)

Or

- (b) Discuss about extra warp and extra weft figuring.  
(CO4, K6)

20. (a) Discuss about ornamentation of weft knit structures.  
(CO5, K6)

Or

- (b) Explain the weft knit structures. (CO5, K2)

**R0955**

**Sub. Code**

**2MF2C2**

**M.Voc. DEGREE EXAMINATION, APRIL – 2024**

**Second Semester**

**Fashion Technology**

**ADVANCED WET PROCESSING**

**(CBCS – 2022 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 1 = 10)

Answer **all** questions by choosing the correct options.

1. Which of the following fiber has the highest lignin content? (CO1, K1)
  - (a) Cotton
  - (b) Jute
  - (c) Flax
  - (d) Polyester
2. Name the process that imparts shape retention to fibers (CO1, K1)
  - (a) Singeing
  - (b) Scouring
  - (c) Heat setting
  - (d) Steaming
3. Which of the following printing adopts photocopying technique? (CO2, K1)
  - (a) Digital printing
  - (b) Transfer printing
  - (c) Xerographic printing
  - (d) Graphic printing

4. Identify the benefit of ultrasonic assisted dyeing (CO2, K1)
- (a) Improves penetration of dye into fiber
  - (b) Increases colour strength
  - (c) Increases colour fastness
  - (d) All the above
5. Choose the fabric for which Antistatic finishes are applied? (CO3, K1)
- (a) Cotton
  - (b) Polyester
  - (c) Jute
  - (d) Linen
6. Which of the following technique protects the contents of a finish from evaporation until release (CO3, K1)
- (a) Padding
  - (b) Nano
  - (c) Microencapsulation
  - (d) Spraying
7. Name the enzyme used in peroxide killing (CO4, K1)
- (a) Amylase
  - (b) Cellulase
  - (c) Catalase
  - (d) Pectinase
8. Identify the stone used in stone wash finishing of denim (CO4, K1)
- (a) Slate
  - (b) Basalt
  - (c) Pumice
  - (d) Metamorphic
9. Crockmeter is used to test \_\_\_\_\_ fastness (CO5, K1)
- (a) Washing
  - (b) Light
  - (c) Rubbing
  - (d) Perspiration



**Part C**

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Outline about plasma modification of cellulosic fibers. (CO1, K2)

Or

- (b) Discuss about methods of plasma generation for treatment of textiles. (CO1, K4)

17. (a) Evaluate the advancements in natural dyeing. (CO2, K5)

Or

- (b) Explain in detail about digital printing. (CO2, K5)

18. (a) Elaborate on advanced coating techniques used in functional finishing. (CO3, K5)

Or

- (b) Explain about phase change materials and self cleaning technique. (CO3, K2)

19. (a) Discuss the role of enzymes in Textile processing. (CO4, K3)

Or

- (b) Explain about any three finishes for denim fabrics. (CO4, K2)

20. (a) Assess the causes and remedies of water pollution. (CO5, K5)

Or

- (b) Elaborate on effluent treatment process. (CO5, K5)



**R0956**

**Sub. Code**

**2MF2C3**

**M.Voc. DEGREE EXAMINATION, APRIL – 2024**

**Second Semester**

**Fashion Technology**

**NANO TEXTILES**

**(CBCS – 2022 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 1 = 10)

Answer **all** questions by choosing the correct options.

1. Name the people who used nanoparticles in 4<sup>th</sup> century AD itself (CO1, K1)  
(a) Greek (b) Roman  
(c) Arab (d) Indian
2. A nano meter in metric system is equal to (CO1, K1)  
(a)  $10^{-7}$  (b)  $10^{-8}$   
(c)  $10^{-9}$  (d)  $10^{-6}$
3. Identify the diameter of nanofiber (CO2, K1)  
(a) below 1 nm  
(b) above 1  $\mu\text{m}$   
(c) between 1 nm and 1  $\mu\text{m}$   
(d) none of the above
4. Choose the application of nanofibers (CO2, K1)  
(a) Water filtration  
(b) Drug delivery  
(c) Biomedical application  
(d) All the above

5. Expand CNT (CO3, K1)
- (a) Complete Nutritional Transformation
  - (b) Carbon nano tube
  - (c) Computer net work
  - (d) None of the above
6. Identify the property imparted to textiles by ZnO nanoparticles (CO3, K1)
- (a) Fragrance (b) UV protection
  - (c) Antibacterial (d) Absorption
7. Which of the following is a type of scanning probe microscopy, with resolution on the order of fractions of a nanometer? (CO4, K1)
- (a) AFM (b) FTIR
  - (c) MLC (d) CC1
8. Which test method is used to assess the mass loss rate of a product? (CO4, K1)
- (a) TEM (b) MLC
  - (c) MLR (d) EDS
9. What is a polymer made off? (CO5, K1)
- (a) Natural substance (b) Chemical substance
  - (c) Either (a) and (b) (d) Modified natural substance
10. List the property observed in nanocoated or ceramic coated materials. (CO5, K1)
- (a) Luster (b) Absorption
  - (c) Repulsion (d) None of the above

**Part B**

(5 × 5 = 25)

Answer **all** questions not more than 500 words each.

11. (a) Express the fundamental concepts of nanotechnology. (CO1, K2)

Or

- (b) Define nanotechnology and Particle size. (CO1, K1)

12. (a) Express the ecological considerations of nanoparticles. (CO2, K2)

Or

- (b) Explain about controlling fiber orientation. (CO2, K2)

13. (a) Outline about nano fibers reinforced polymer fibers. (CO3, K3)

Or

- (b) Explain about the production of carbon nanotubes. (CO3, K2)

14. (a) Explain about X ray diffraction. (CO4, K2)

Or

- (b) Outline about AFM. (CO4, K3)

15. (a) Explain about the development of nano textiles using nano care. (CO5, K5)

Or

- (b) Discuss about development of dyeable polypropylene. (CO5, K6)

**Part C**

(5 × 8 = 40)

Answer **all** questions not more than 1000 words each.

16. (a) Discuss the different types of approaches in nano technology. (CO1, K4)

Or

- (b) Illustrate the scope of nano technology in textile and apparel manufacturing. (CO1, K3)

17. (a) Discuss about the applications of nano fibers.  
(CO2, K4)

Or

- (b) Elaborate on electro spinning of nanofibers.  
(CO2, K6)

18. (a) Discuss about multifunctional polymer nanocomposites for industrial application. (CO3, K4)

Or

- (b) Discuss the application of silver; iron and MgO nanoparticles on textiles. (CO3, K4)

19. (a) Discuss about characterization of nano particles.  
(CO4, K4)

Or

- (b) Explain about (i) EDS and (ii) Transmission electron microscopy. (CO4, K4)

20. (a) Elaborate on Nano technologies for coating and structuring of textiles. (CO5, K6)

Or

- (b) Compile about the development of smart and technical textiles using nano textiles. (CO5, K6)