

- 12.a. Discuss the applications of polyolefin woven sacks in packaging. CO2K2
- (or)
- 12.b. What are the recent innovations in packaging textiles? CO2K3
- 13.a. Summarize the essential properties of geotextiles for soil strengthening. CO3K2
- (or)
- 13.b. Explain the pollutant capture mechanism in filtration textiles. CO3K3
- 14.a. Describe the types of fibers used in wound care textiles. CO4K2
- (or)
- 14.b. Explain the thermal insulation properties of defense textiles. CO4K3
- 15.a. Highlight the testing standards applicable to agro textiles. CO5K2
- (or)
- 15.b. Discuss the importance of wearable technology in sports textiles. CO5K3

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Compare the properties of Nomex and Kevlar fibers and their applications. CO1K4
- (or)
- 16.b. Analyze the sustainability of Econyl and Pinatex fabrics. CO1K5
- 17.a. Evaluate the performance of industrial textiles in conveyor belts, drive belt and filtration products. CO2K5
- (or)
- 17.b. Compare traditional and modern tea-bag materials and other packaging materials. CO2K4
- 18.a. Analyze the role of natural and synthetic fibers in geotextiles. CO3K4
- (or)
- 18.b. Evaluate the effectiveness of filtration textiles in various applications like sewage treatment plants, paper manufacture and automobile engines. CO3K5
- 19.a. Discuss the advancements of medical textiles in dermatology and cardiovascular implants CO4K4
- (or)
- 19.b. Evaluate the role of carbon nanotubes, Glass, vectran and graphenfibers in automobile textiles. CO4K5
- 20.a. Compare artificial turfs with natural grass in sports applications. CO5K4
- (or)
- 20.b. Assess the applications and ecological impact of agro textiles in farming. CO5K5
