

MAJOR ELECTIVE COURSE – I SUSTAINABILITY IN TEXTILES AND FASHION

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following is NOT a pillar of sustainability? a) Environmental b) Social c) Economic d) Political	K1	CO1
	2	Define the term fast fashion in the context of sustainability. a) Slow production process b) Quick turnover of fashion trends c) Traditional clothing system d) Eco-friendly design system	K2	CO1
2	3	Textile waste can be classified into: a) Pre-consumer and Post-consumer waste b) Fabric and Non-fabric waste c) Organic and Inorganic waste d) Renewable and Non-renewable waste	K1	CO2
	4	Explain one method used for wastewater control in fabric manufacturing. a) Carbon emission calculation b) Effluent treatment plants c) Biodegradable packaging d) Carbon footprint labeling	K2	CO2
3	5	Which of the following is a sustainable design strategy? a) Overproduction b) Zero waste design c) Synthetic dyeing d) Fast disposal	K1	CO3
	6	Identify one example of embedding sustainability in the supply chain. a) Single-use plastics b) Traceable raw material sourcing c) Overconsumption d) Fast fashion adoption	K2	CO3
4	7	Which of the following is an eco-friendly dye? a) Azo dyes b) Natural dyes c) Reactive dyes with salt discharge d) Disperse dyes	K1	CO4
	8	Explain the role of enzymes in eco-friendly textile processing. a) To increase pollution b) To enhance energy consumption c) To reduce harsh chemical use d) To fix synthetic colors	K2	CO4
5	9	Which of the following is a recycling technology? a) Thermal bonding b) Mechanical shredding c) Laser cutting d) Hand stitching	K1	CO5
	10	Analyze one major challenge in textile recycling. a) Easy separation of fibers b) Lack of waste generation c) Blended fabric separation d) Over-dependence on natural fibers	K2	CO5

Cont...

Answer **ALL** questions
ALL questions carry **EQUAL** Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Illustrate the importance of “Reduce, Reuse, Recycle” in sustainable fashion.	K3	CO1
	(OR)			
	11.b.	Apply the concept of carbon footprint to evaluate fashion industry practices.		
2	12.a.	Analyze the sustainability practices adopted in yarn manufacturing.	K4	CO2
	(OR)			
	12.b.	Examine the role of wastewater treatment in sustainable fabric manufacturing.		
3	13.a.	Evaluate the effectiveness of sustainable strategies in design houses. .	K3	CO3
	(OR)			
	13.b.	Assess the role of zero-waste design in sustainable fashion production.		
4	14.a.	Analyze the advantages of using natural colorants over synthetic dyes.	K4	CO4
	(OR)			
	14.b.	Compare eco-friendly finishing methods with conventional finishing methods.		
5	15.a.	Apply your knowledge to suggest a textile waste recycling method for blended fabrics.	K5	CO5
	(OR)			
	15.b.	Demonstrate how life cycle analysis (LCA) helps in sustainable textile management.		

SECTION -C (30 Marks)

Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the impact of fast fashion on consumer responsibility and sustainable practices.	K4	CO1
2	17	Critically examine the challenges of achieving sustainability in textile waste management.	K4	CO2
3	18	Evaluate the effectiveness of embedding sustainability in global fashion supply chains.	K5	CO3
4	19	Compare the eco-friendly dyeing and printing methods with conventional processes in terms of cost, quality, and environmental impact.	K4	CO4
5	20	Propose innovative recycling technologies for textile waste with justification of their long-term sustainability.	K5	CO5

Z-Z-Z

END