

22584

23124

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following :

10

- (a) List out any four eco-friendly textile fibres.
- (b) Enlist components of environment and state its importance.
- (c) State the scope of environment.
- (d) Enlist any four significance of “Eco-Labeling”.
- (e) Enlist Eco-labelling standards.
- (f) List out any four water polluting substances used in textile processing industry.
- (g) State any two sources of energy consumption.

2. Attempt any THREE of the following :

12

- (a) Describe any four recent innovations of Eco-friendly textiles.
- (b) Illustrate the factors affecting Eco-labelling.
- (c) Explain the management of “Solid Waste” in textile industry.
- (d) Demonstrate the impact of dyes and chemicals on eco system.



- 3. Attempt any THREE of the following : 12**
- (a) Outline any four advantages and four limitations of natural dyes.
 - (b) Relate the opportunities and challenges of eco-labelling of textiles.
 - (c) Explain the basic principles of solid waste management.
 - (d) Elaborate the importance of material safety data sheet for chemicals used in textile processing.
- 4. Attempt any THREE of the following : 12**
- (a) Elaborate eco-friendly textile printing of handloom fabric.
 - (b) Analyse the factors in Life Cycle Assessment process.
 - (c) Compute the steps of waste water treatment for textile processing unit.
 - (d) Elaborate the scope of utilization of solar and wind energy in textile sector.
 - (e) Elaborate on the banned amines used in textile processing.
- 5. Attempt any TWO of the following : 12**
- (a) Justify – Bamboo, organic cotton, wool and hemp fibres are eco-friendly fibres.
 - (b) Generate a suitable example for recycling of used clothing for conversion to new product.
 - (c) Relate the importance of use of renewable energy in textile unit with suitable example.
- 6. Attempt any TWO of the following : 12**
- (a) Analyse the sustainable waste management strategies in textile industry.
 - (b) Demonstrate the importance of carbon footprint in textile processing in present scenario.
 - (c) Generate the energy need and consumption pattern in E-control dyeing process of textile processing unit.
-