

22584

23242

3 Hours / 70 Marks

Seat No.

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- 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.

**Marks**

**1. Attempt any FIVE of the following :**

**10**

- (a) Define 'Eco-friendly' Textiles.
- (b) State four advantages of natural dyes.
- (c) Give four Eco-labelling standards name.
- (d) State four plant-sources of natural dyes.
- (e) Sketch classification of solid waste.
- (f) Recite 'German ban of dyestuff'
- (g) Define 'Green Energy'.

**2. Attempt any THREE of the following :**

**12**

- (a) Compare advantages and disadvantages of Eco-friendly fibres with conventional fibres (four points).
- (b) Explain the recent innovation for ecofriendly textile printing.
- (c) Justify the need of recycling of garments and give its advantages.
- (d) Relate the scope of utilization of solar and wind energy in textiles sector from environment view point.



- 3. Attempt any THREE of the following : 12**
- (a) Identify the opportunities and challenges for Eco-labelling of textiles.
  - (b) Discuss in details the basic principles of solid waste management.
  - (c) Explain the impact of dyes and chemicals on Eco-system in details.
  - (d) Justify the need to use renewable energy in industries with respect to conventional ones.
- 4. Attempt any THREE of the following : 12**
- (a) Outline the noise control measures used in textile units.
  - (b) Elaborate the waste water treatment steps for textile processing unit in general.
  - (c) Illustrate the importance of life cycle assessment in textiles.
  - (d) Explain in detail relevance of carbon foot print in textile technologies.
  - (e) Analyse on waste management system prevailing in India.
- 5. Attempt any TWO of the following : 12**
- (a) Relate the relevance of occupational safety & health hazards in textile units and its safety measures.
  - (b) Elaborate the Green Energy Policies in Textile Industry for making the technology & process ecofriendly.
  - (c) Compute the importance of public awareness for Green marketing & Ecolabelling.
- 6. Attempt any TWO of the following : 12**
- (a) Illustrate the measures implemented to reduce impact of dyes on soil and water parameters.
  - (b) Demonstrate in details sustainable waste management strategies in textile & clothing industry.
  - (c) Compare the scope of replacement of present energy pattern and policies needed to ensure resources sustainability.
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