

22584

12425

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Figures to the right indicate full marks.
 - (3) 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) Define environment and state it's importance for human being.
- (b) List any two factors constituting sustainable textile.
- (c) State sources of solid waste in textile.
- (d) Write in short about sources of air pollution in textile unit.
- (e) Discuss effect of textile effluent on ecosystem and suggest preventive measure.
- (f) Explain sources of energy consumption in textile industry.
- (g) Describe carbon foot print reduction in textile industry.

2. Attempt any THREE of the following :

12

- (a) Describe advantage of natural fibre as sustainable source.
- (b) Explain concept of sustainable textile.
- (c) State methods of treatment of solid waste in textile unit.
- (d) Explain banned dyes meaning with examples.



- 3. Attempt any THREE of the following : 12**
- (a) Describe resource sustainability.
 - (b) Discuss steps involved in waste water treatment for textile industry.
 - (c) Explain classification of solid waste in textile unit.
 - (d) Describe scope of renewable energy use in textile industry.
- 4. Attempt any THREE of the following : 12**
- (a) Describe key environmental factors considered in textile industry.
 - (b) Explain life cycle assessment of clothing product.
 - (c) Discuss steps involved in treatment of fabric waste.
 - (d) Enlist health hazards present in textile unit
 - (e) Describe any two sources of energy consumption sources in spinning unit.
- 5. Attempt any TWO of the following : 12**
- (a) Describe in detail requirements to be fulfilled to call textile product eco-friendly.
 - (b) Explain need of energy policy for textile unit.
 - (c) Describe garment recycling for waste management.
- 6. Attempt any TWO of the following : 12**
- (a) Explain any three characteristics of organic wool.
 - (b) Enlist any three eco-labelling standards with symbol, product and country code (country name).
 - (c) Compute parameters considered for energy audit of weaving unit.
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