

22584

11920

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.
 - (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) Enlist components of environment and it's importance for human.
- (b) Explain in short Eco-labelling.
- (c) Define solid waste and explain in brief nature of solid waste in textile.
- (d) List any four water polluting substances used in textile industry.
- (e) Recite energy policy with its general theme.
- (f) State any two sources of energy consumption in spinning.
- (g) State the importance of MSDS.

- 2. Attempt any THREE of the following: 12**
- (a) Discuss advantages of ecofriendly fibres.
 - (b) Elaborate the term 'Sustainable' with reference to textile industry.
 - (c) Demonstrate the solid waste minimisation methods in spinning department.
 - (d) Identify the banned Amines used in textile industry.
 - (e) Outline the energy consumption pattern observed in wet processing of 100% cotton unit.
- 3. Attempt any THREE of the following : 12**
- (a) Justify need of considering general environmental aspects in textile unit.
 - (b) Discuss steps involved in effluent treatment for textile process with reference to tertiary treatment.
 - (c) Illustrate the methods of waste recycling for P/C fabric manufacturing & processing unit.
 - (d) Conduct energy conservation in spinning units with a suitable example.
- 4. Attempt any THREE of the following : 12**
- (a) Differentiate conventional textile printing and it's ecofriendly advances.
 - (b) Discuss Oeko tex certification requirement in brief.
 - (c) Identify the various stages of reduction of solid waste in weaving unit.
 - (d) Elaborate the term 'good ventilation' and justify its importance in textile unit for healthy work environment.
 - (e) Demonstrate the importance of carbon footprint for textile in present scenario.

5. Attempt any TWO of the following :**12**

- (a) Locate the plants used to prepare natural dyes and enlist the advantages and limitations of natural dyes in general.
- (b) Relate the importance of use of renewable energy in textile industry with suitable example.
- (c) Analyse the recycling process in yarn manufacturing for developing new product with suitable example.

6. Attempt any TWO of the following :**12**

- (a) Differentiate between organic cotton & BT cotton. (any six points)
 - (b) Illustrate with suitable example 'REACH' certification for textile goods.
 - (c) Compute the parameters considered for energy audit in a spinning unit.
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