

22584

22232

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) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) 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 term environment and list any two effects of changing climate.
- (b) List any two eco-labelling standards & their country of origin.
- (c) Enlist sources of solid waste in textile unit.
- (d) Explain in short main steps of effluent treatment for textile effluent.
- (e) List two sources of energy consumption in textile wet processing unit.
- (f) State two effects of effluent on eco system released from textile industry.
- (g) List any two renewable energy sources that can be used in textile industry.

2. Attempt any THREE of the following :

12

- (a) Discuss the concept of environment friendly textile process with suitable examples.
- (b) Justify any four characteristics of organic cotton for making it ecofriendly.
- (c) Demonstrate solid waste reduction measures taken in textile industry.
- (d) Describe concept of banned dyes and list any two banned dyes naming the banned amine present in them.



- 3. Attempt any THREE of the following :** **12**
- (a) Outline the key environmental factors in textile processing unit.
 - (b) Locate the air and noise pollution sources in wet processing in textile industry.
 - (c) Demonstrate step by step example of solid waste management aspects for a weaving unit.
 - (d) Outline the ways for energy consumption reduction in textile dyeing department.
- 4. Attempt any THREE of the following :** **12**
- (a) Differentiate any four advantages and limitations of natural dyes.
 - (b) Demonstrate the steps of life cycle assessment of 100% cotton clothing product.
 - (c) Appraise the steps in recycling of textile for conversion to new product for clothing unit (100% polyester)
 - (d) Illustrate & justify any four personal protective equipments used in textile industry.
 - (e) Calculate the carbon credit evaluation method for textile processing industry.
- 5. Attempt any TWO of the following :** **12**
- (a) Differentiate between organic cotton and BT cotton. (Any six points)
 - (b) Analyse the distinct steps involved in the recycling of textile material.
 - (c) Relate the important factors considered in energy management of textile processing industry.
- 6. Attempt any TWO of the following :** **12**
- (a) Propose any three plant sources with specific colour used in production of 'Ayurvastra'.
 - (b) Illustrate the distinct steps of Oeko-Tex 100 certification.
 - (c) Outline the recent advances in renewable energy sources which are used in textile industry.
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