

22361

11819

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) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **10**
- Define the terms:
 - Staple fibre
 - Filament fibre
 - Write the chemical composition of cotton fibre.
 - Define bast fibre with two examples.
 - State any four uses of banana fibre.
 - State any four varieties of silk.
 - Compare cotton with wool fibre.
 - State any four uses of Jute fibre.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Explain the essential properties of textile fibre.
 - b) Describe the morphological structure of cotton with suitable sketch.
 - c) Select a proper retting and extraction method for banana fibre.
 - d) State two physical and two chemical properties of wool fibre.
- 3. Attempt any THREE of the following: 12**
- a) Classify the textile fibres based on nature and origin with suitable examples.
 - b) Define yarn and fabric. List their quality specifications.
 - c) Describe the morphology structure of banana fibre.
 - d) Select a suitable method for cleaning of wool fibre.
- 4. Attempt any THREE of the following: 12**
- a) Explain the terms:
 - (i) Moisture regain and
 - (ii) Moisture content
 - b) Compare Oxycellulose with Hydrocellulose from damaged fabric.
 - c) Describe the cultivation method for organic cotton production.
 - d) State two physical and two chemical properties of flax fibre.
 - e) Describe the morphological structure of wool fibre with neat sketch.

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

- a) Explain with neat sketch the Amorphous and crystalline regions in textile fibres.
- b) Justify wool fibre has specific properties for making special fabrics.
- c) Select the methods used for sericulture of silk.

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

- a) Explain the physical and chemical properties of cotton fibre.
 - b) Describe the retting methods for extraction of Jute fibre.
 - c) Explain the methods used for degumming of silk. Write the importance of degumming.
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