

17223

21718

3 Hours / 100 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following:** **20**
- a) Explain the terms – Fibre, yarn and fabric.
 - b) Describe in brief the cultivation method for cotton fibre.
 - c) Explain the concept of Homogeneous and Heterogeneous acetylation.
 - d) Explain the degumming process for silk fibre.
 - e) Describe manufacturing process of cellulose acetate fibre.
 - f) What is degree of polymerisation? Explain with suitable example.
 - g) Explain the morphological structure of silk fibre.

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) With neat diagram, explain the dry spinning and wet spinning processes.
 - b) Explain the Oxy cellulose and Hydro cellulose furnation in degradation of cotton. Write it's detection methods.
 - c) Explain the manufacturing process for viscose rayon with flow chart. Write the additives used in manufacturing process.
- 3. Attempt any TWO of the following:** **16**
- a) Explain the classification of Textile fibres based on nature and origin with suitable examples.
 - b) (i) Explain the varieties of cotton fibre.
(ii) Describe morphological structure of cotton fibre.
 - c) Explain the physical and chemical properties of Lyocell fibres. Write it's end uses.
- 4. Attempt any TWO of the following:** **16**
- a) Explain the essential and desirable properties of Textile fibres.
 - b) Explain the physical and chemical properties of wool fibre.
 - c) Explain the seri culture of silk and write it's two physical and two chemical properties also.

5. Attempt any TWO of the following:**16**

- a) Explain the physical and chemical properties of cotton fibre.
- b) Describe the manufacturing process for polynosic fibres. Write it's applications also.
- c) Draw and describe the morphological structure of wool fibre. Write the uses of wool fibre.

6. Attempt any TWO of the following:**16**

- a) Explain the physical and chemical properties and uses of cellulose acetate fibres.
 - b) Describe the retting processes for jute fibre. Write it's advantages.
 - c) Explain the physical and chemical properties and uses of flax fibres.
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