

17342

21314

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.

Marks

1. **Attempt any TEN of the following :** **20**
- a) Enlist various ingredients used in sizing paste.
 - b) What is role of adhesive in sizing paste ?
 - c) What do you mean by shearing ?
 - d) What is role of softeners in sizing ?
 - e) Give general pretreatment sequence for woven fabric.
 - f) What are objectives of singeing ?
 - g) What is cropping ?
 - h) What are objectives of scouring ?
 - i) What are types of desizing ?
 - j) What are objectives of sizing ?
 - k) What are objectives of bleaching ?
 - l) What are types of bleaching agent ?
 - m) What is mercerization ?
 - n) What is the purpose of scouring of wool ?

P.T.O.

- 2. Attempt any TWO of the following :** **16**
- a) Explain the size paste formulation for cotton and Plc yarn.
 - b) Describe the construction and working of gas singing machine.
 - c) Explain enzyme desizings. Also explain factors affecting action of enzymes.
- 3. Attempt any TWO of the following :** **16**
- a) Compare plate and roller singing machine with their advantages and disadvantages.
 - b) What are different methods of scouring ? Explain any one of them.
 - c) Explain the mechanism of H_2O_2 bleaching. Also explain the factors affecting the H_2O_2 bleaching.
- 4. Attempt any TWO of the following :** **16**
- a)
 - i) What is the role of stabilizer and activator in H_2O_2 bleaching ?
 - ii) Compare H_2O_2 and NaOCl bleaching.
 - b) Explain the factors affecting the mericrisation process.
 - c) Explain the preparatory process sequence for worsted good.

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

- a) Describe the construction and working of J-box machine.
- b) Explain hot mercerization in detail.
- c) Explain degumming of silk in detail.

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

- a) Explain scouring of cotton, synthetic and their blends.
 - b) Explain continuous method of bleaching with its advantages and disadvantages ?
 - c) State the names of machines used for mercerization of woven fabric. With neat diagram explain construction and working of any one of them.
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