

17564

16172

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) Abbreviations used convey usual meaning.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. Answer any FIVE of the following:

20

- Which are the auxiliaries used in polyester dyeing? Write their functions.
- Explain the carrier dyeing method for polyester fabric.
- Explain with examples, the role of retarders in acrylic dyeing.
- Write any two faults and suggest their remedies in nylon dyeing with reactive dyes.
- State advantages and limitations of yarn dyeing.
- What is soft flow dyeing machine? Write its advantages and limitations.
- Explain the concept of rapid dyeing techniques.

P.T.O.

		Marks
<b>2.</b>	<b>Answer any <u>TWO</u> of the following:</b>	<b>16</b>
a)	(i) Describe dyeing of polyester by high temperature, high pressure method.	5
	(ii) State advantages and limitations of this method.	3
b)	(i) Explain the dyeing method of Nylon with acid dyes.	5
	(ii) Write about their fastness properties.	3
c)	(i) Describe dyeing of polyester/cotton blended fabric using disperse/reactive dye system.	6
	(ii) State the parameters to be controlled in this process.	2
<b>3.</b>	<b>Answer any <u>TWO</u> of the following:</b>	<b>16</b>
a)	(i) What are disperse dyes?	
	(ii) State properties of disperse dyes write classification of disperse dyes.	
b)	(i) Explain dyeing of acrylic with disperse dyes.	5
	(ii) Describe their fastness properties.	3
c)	(i) With a suitable dye-combination explain the dyeing process for nylon/cotton blended fabric.	6
	(ii) Name any one problem and its remedy in the dyeing.	2
<b>4.</b>	<b>Answer any <u>TWO</u> of the following:</b>	<b>16</b>
a)	(i) Explain various faults in polyester dyeing and their remedies.	6
	(ii) State properties of polyester.	2
b)	(i) Explain high and low temperature dyeing of nylon.	5
	(ii) State advantages and limitations of the method.	3
c)	(i) Describe the construction and working of Jet dyeing machine.	6
	(ii) State its advantages.	2

		Marks
<b>5.</b>	<b>Answer any <u>TWO</u> of the following:</b>	<b>16</b>
a)	(i) Describe dyeing of acrylic with basic dyes.	5
	(ii) Comment on their fastness properties.	3
b)	Describe the dyeing of nylon/wool blended fabric with suitable dyes.	
c)	(i) With a labelled diagram, describe working of Beam dyeing machine.	5
	(ii) State its advantages and limitations.	3
<b>6.</b>	<b>Answer any <u>TWO</u> of the following:</b>	<b>16</b>
a)	(i) Describe dyeing of polyester / wool blended fabric with suitable dyes.	6
	(ii) State parameters to be controlled in this dyeing.	2
b)	(i) Explain the importance of winding angle and package density in yarn dyeing.	
	(ii) Differentiate between hank form dyeing and package form dyeing.	
c)	(i) With a labelled diagram describe the construction and working of CDR machine.	6
	(ii) State its limitations.	2

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