

Subject Code:2163608

Date:21/05/2019

Subject Name:Technology of Dyeing

Time:10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	MARKS
<b>Q.1</b> (a) What are fibres? Give its applications?	<b>03</b>
(b) How we can improve the efficiency of dyeing on textile fibres?	<b>04</b>
(c) Briefly explain the general properties of textile fibres.	<b>07</b>
<b>Q.2</b> (a) Write a short note on: Yarn.	<b>03</b>
(b) Explain the after treatment method for the dyeing of remazol dyes.	<b>04</b>
(c) Briefly explain batch wise dyeing of cellulose fibres with hot brand reactive dyes.	<b>07</b>
<b>OR</b>	
(c) How will you justify the reactivity & affinity of reactive dye towards textile fibre?	<b>07</b>
<b>Q.3</b> (a) Write a short note on: Rapid dyeing on textile fibres.	<b>03</b>
(b) Justify: Dye-Fibre has bound with covalent bond in the system?	<b>04</b>
(c) How will you differentiate cellulose fibres & synthetic fibers?	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Write a short note on: Hot Air Dryers	<b>03</b>
(b) Explain the importance of ionic bonding in the dyeing of fibres with example.	<b>04</b>
(c) Explain Clauder Weldon dyeing machine with its construction, working principle, neat sketch.	<b>07</b>
<b>Q.4</b> (a) Explain winch dyeing machine with neat sketch.	<b>03</b>
(b) Establish the difference between Batch Dyeing & Continuous Dyeing.	<b>04</b>
(c) Which instrument is used for colour matching of dyed fibres? Explain with its principle?	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Discuss the dye absorption in exhaust dyeing process.	<b>03</b>
(b) Explain Hussong hank dyeing machine with neat sketch.	<b>04</b>
(c) What is Supercritical Fluid? Explain dyeing with such fluids with its advantages & disadvantages?	<b>07</b>
<b>Q.5</b> (a) Explain microwave assisted dyeing process.	<b>03</b>
(b) Discuss the nature of ionic bonding within Dye-Fibre in dyeing systems?	<b>04</b>
(c) Explain U Type Fabric Dyeing Machine operated with high temperature and high pressure?	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) Write Short Note on: Hot Pad Batch Dyeing	<b>03</b>
(b) Discuss the beaker dyeing machine with its specification.	<b>04</b>
(c) Briefly explain the interactions of various components in dyeing?	<b>07</b>

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