xv) Which properties are evaluated in the fresh water?

## **SECTION-C**

**Note:**Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What do you mean by fastness testing? Discuss the standard method of wash fastness testing with sample & instrument details and evaluation method.
- Q.4 Discuss the detailed procedure for analysis of following blends:
  - i) Polyester/Viscose
  - ii) Nylon/wool
  - iii) Acrylic / wool
- Q.5 Write short note on the following:
  - i) Hardness testing of water.
  - ii) Effluent treatment plant.
- Q.6 Write short note on the following:
  - i) Cuprammonium fluidity test
  - ii) Barium activity number
- Q.7 Discuss the mechanical & chemical degradation of cotton and wool in detail.

(40) (4) 32653

No. of Printed Pages : 4 Roll No. .....

32653

## 5th Sem. / Textile Processing Subject : Textile Chemical Testing

Time: 3 Hrs. M.M.: 100

## **SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Define copper number.
  - b) Reactive dyes have \_\_\_\_\_ wash fastness(good/poor)
  - c) Rubbing fastness is also known as . . .
  - d) Polyester dissolves in which solvent?
  - e) Discuss the burning test of cotton fibre.
  - f) What do you mean by term fastness in context to dyed material?
  - g) Name the two types of the gray scale.
  - h) Which equipment used for the light fastness testing?
  - i) What does high carboxyl group content in cotton fabric indicate?

(1)

32653

		polyester?		in cotton and wool.
	k)	What do you mean by COD?	iv)	What is gray scale and what is its use?
	l)	Viscose dissolve in % H₂SO₄.	v)	Briefly discuss the procedure to test the sea water fastness.
	m)	Which equipment used for the rubbing fastness testing?		
			vi)	What is barium activity number and why it is determined?
	n)	How the scouring efficiency is judged in cotton?  Comment on the overall fastness properties of the vat dyed cotton.	!!)	vii) Discuss the detail of instrument used for rubbing fastness.
p	0)		VII)	
			viii)	Discuss the characteristics of effluent
	p)	How much % of fatty & waxy material is there in cotton?  Rating of light fastness is given fromto  Which equipment used for the wash fastness testing?		generated from processing.
			ix)	ix) Explain the method of evaluating hydrogen peroxide.
	q)		\	
	r)		<b>X</b> )	Explain the concept of methylene blue absorption test.
	,		xi)	How will you determine the fat and wax content of cotton textile?
	SECTION-B		xii)	How the print paste is evaluated?
<b>Note:</b> Short answer type questions. Attempt any ten parts 10x4=40		xiii) What do you mean by fastness of dyed material and enlist different fastness to be		
Q.2	i)	How the P/C blend is analyzed?	tested?	
	ii)	Discuss in detail the procedure of testing sublimation fastness.	XIV,	xiv) Write the detail procedure to measure sublimation fastness.
		(2) 32653		(3) 32653

Discuss the possible mechanical damage

What kind of damage takes place in