Register Number:……..

KUMARAGURU
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B.TECH DEGREE EXAMINATIONS: MAY 2017

(Regulation 2014)

Sixth Semester

TEXTILE TECHNOLOGY

U14TXTE63: Garment Wet Processing

COURSE OUTCOMES

CO1: Outline the process flow for garment processing

CO2: Explain the various dyeing, printing and finishing methods involved in garment processing

CO3: Prepare the garment with different style using advanced finishing

CO4: Explain the working principle of garment processing machines

CO5: Label the garment care

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. In garment dyeing process, the reason for patchy dyeing is CO1 [K_3]

   a) Decrease the dyeing time
   b) Increase the dyeing time
   c) Lower machine speed
   d) Improper salt addition

2. Garment printing follows the step as CO1 [K_4]

   i. Printing-drying-steaming-fixing
   ii. Fixing-Printing-drying-steaming
   iii. Steaming- Printing-drying-fixing
   iv. Drying- Printing- -steaming-fixing

   a) i
   b) ii
   c) iii
   d) iv

3. The one which is not a care labelling system CO5 [K_2]

   a) Japanese system
   b) British system
   c) Canadian system
   d) Nigerian system

4. Consider the following assertion [a] and reason [r] and choose the correct alternative from amongst a, b, c and d. CO2 [K_3]

[**A**] In resin finishing of cellulosic garment, usually the curing stage is carried out in hot dry air and not in steam.

[**R**] The acid catalyst used in resin formulation is activated in hot air only.

a) **[A]** is right **[R]** is right
b) **[A]** is right **[R]** is wrong
c) **[A]** is wrong **[R]** is wrong
d) **[A]** is wrong **[R]** is right

5. For obtaining bright and clear prints in pigment printing, the thickener should CO2 [K_4]

a) Have a good binding power
b) Have a zero solid content
c) Form an elastic film
d) Form a transparent film

6. Which major parts used for used look finishing machines CO3 [K_4]

a) Cutting roller
b) Brushing roller
c) Grinding roller
d) Swash roller

7. Determine the correctness of the following Assertion **[A]** & Reason **[R]** CO3 [K_4]

[A] Disperse dyes are dyed on polyester garment at 130^0C from an aqueous dispersion of the dye

[R] The disperse dye is insoluble in water during dyeing at 130^0C.

a) Both **[A]** & **[R]** are true and **[R]** is the correct reason for **[A]**
b) Both **[A]** & **[R]** are true and **[R]** is not the correct reason for **[A]**
c) Both **[A]** & **[R]** are false
d) **[A]** is true but **[R]** is false

8. The Hand finisher improve the CO4 [K_4]

a) Fabric feel
b) Fabric cover factor
c) Fabric thickness
d) Fabric flexural rigidity

9. In bio polishing process CO4 [K_3]

1. Give good pilling resistance
2. Give poor pilling resistance
3. Give poor drape ability
4. Give good drape ability

The set of correct statement is

a) 1 , 4
b) 1, 2
c) 1, 3
d) 3, 4

10. Consider the elements in List I and List II and choose the correct alternatives from amongst a, b, c, and d CO5 [K_4]

List I	List II
A. Hand finisher	i. Model-2157
B. Pant finisher	ii. Model-8750
C. Multi foam finisher	iii. Model-8362
D. Shirt finisher	iv. Model-399

	A	B	C	D
a)	iii	i	ii	iv
b)	iv	iii	i	ii
c)	i	ii	iii	iv
d)	iv	i	ii	iii

PART B (10 x 2 = 20 Marks)

(Answer not more than 40 words)

11. Give the merits and demerits of garment dyeing. CO1 [K_3]
12. How to select the chemical auxiliaries in garment dyeing? CO1 [K_4]
13. Highlight the dyeing of garment fasteners. CO2 [K_3]
14. What do you meant by solvent dyeing process? CO2 [K_2]
15. Compare enzyme wash with stone wash. CO3 [K_3]
16. How to make ultra violet (UV) protective garment? CO3 [K_3]
17. Enlist the various finishing treatment given to garment. CO4 [K_2]
18. Write about the continuous garment finishing machines. CO4 [K_2]
19. What are the requirements of garment care in finished garments? CO5 [K_3]
20. Compare air and wet cleaning. CO5 [K_3]

Answer any FIVE Questions:-

PART C (5 x 14 = 70 Marks)

(Answer not more than 300 words)

Q.No. 21 is Compulsory

21.	Explain the consideration and precautions performed in garment processing.	CO1	[K_4]
22.	Give an account of mechanism and application of reactive dye on cotton and polyester/cotton blended garment. And also highlight the significance of each chemicals and steps.	CO2	[K_4]
23.	Explain the various concept and mechanism involved in printing of garment.	CO3	[K_4]
24.	How to prepare the various effects on garment surface? Explain the mechanism and application of any two garment effects.	CO3	[K_4]
25.	Explain the precautions and dyeing operation performed in any one garment dyeing machine with neat diagram.	CO4	[K_3]
26.	Summarize the various garment care labelling systems used in garment	CO5	[K_4]
27.	Discuss in detail about the theory and mechanism of flame retardant finishing of cotton and polyester garment materials.	CO2	[K_4]

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