Register Number……

B.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2010

Sixth Semester

TEXTILE TECHNOLOGY

U07TT602: Textile Chemical Processing – II

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

Answer ALL the Questions:-

PART A (10 x 1 = 10 Marks)

1. The most suitable dye for cotton fabric printing is

   [A] Acid dye [B] Reactive dye [C] Metal complex dye [D] Basic dye

2. Select the printing machine among the following.

   [A] Winch [B] Jigger [C] J-box [D] Flat bed

3. Select the mechanical finishing among the following

   [A] Calendering [B] Mercerization [C] Non-felting [D] Milling

4. What is the textile fibre easily undergone felting?

   [A] Cotton [B] Silk [C] Wool [D] Polyester

5. Cross linking agents are used to

   [A] Resist Crease [B] Print the fabric [C] Scour Cotton [D] Give colour

6. Mercerization is done on cotton fabric using

   [A] 25% (w/v) NaOH [B] 10 gpL H_2SO_4

   [C] 3% (owm) H_2O_2 [D] 3 gpL available chlorine of hypochlorite

7. In textile effluent the value of COD will be

   [A] Nil [B] more than 2000 ppm [C] less than 100 ppm [D] 1 mg / L

8. Select the chemicals used in Textile Industry

   [A] $CaCO_3$ [B] H_2O_2 [C] PbO [D] $HgCl_2$

9. Choose the machine suitable for water conservation

   [A] Winch [B] Jigger [C] Soft flow [D] Beam dyeing

10. Select the printing process suitable for energy conservation

    [A] Vat printing [B] Reactive printing [C] Sulphur printing [D] Pigment printing

PART B (10 x 2 = 20 Marks)

11. Compare the Method and Style of printing.

12. List out the essential ingredients of printing paste.

13. What are the objects of mechanical finishing?

14. State about the importance of compacting.
15. Write the principle of wash-n-wear finishing.
16. Justify the need of insect resist finishing on garments.
17. What are the problems due to textile waste water?
18. Mention the concepts of ISO 14000.
19. State about the need for waste minimization.
20. What are the possibilities of water conservation?

PART C (5 x 14 = 70 Marks)

21. (a) Explain the printing of cotton fabric.

(OR)

(b) Give an account on the recent developments in printing paste.

22. (a) Elaborate any one of the durable finishing processes on cotton fabric.

(OR)

(b) Explain, the applications of enzymes in finishing.

23. (a) Describe with an example, how an anti microbial finishing is carried out.

(OR)

(b) What are the value added finishing of garments? Explain one among them.

24. (a) Give an account of the treatments carried out on textile effluents.

(OR)

(b) Explain, how enzymatic decolourization is performed on textile effluents?

25. (a) Describe the possibilities available for waste minimization.

(OR)

(b) Explain how in the textile wet processing chemicals and auxiliaries can be conserved?

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