

B.TECH DEGREE EXAMINATIONS: MAY/JUNE 2013

Fifth Semester

FASHION TECHNOLOGY

FTY113 : Textile Chemical Processing

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. The enzymes that is used for the desizing process is
 - a) Amylase
 - b) Laccase
 - c) Cellulase
 - d) None
2. Which is the universal bleaching agent?
 - a) Sodium chlorite
 - b) Hydrogen peroxide
 - c) Caustic Soda
 - d) Calcium hypo chlorite
3. The soluble form of vat dyes is called _____
 - a) Sulphur
 - b) Caustic
 - c) Leuco
 - d) Chloride
4. Dyes gives excellent washing fastness properties
 - a) Direct
 - b) Vat
 - c) Reactive
 - d) Acid
5. The style of printing that applied from one surface to another through heat is _____
 - a) Direct print
 - b) Transfer print
 - c) Hot print
 - d) Resist print
6. Sodium Alginate is a _____
 - a) Stabiliser
 - b) Hygroscopic agent
 - c) Thickener
 - d) All the above
7. In rotary screen printing the screen is made of _____
 - a) Wood
 - b) Steel
 - c) Nickel foil
 - d) Fabric
8. In screen printing No. of screens required to make 16 colour pattern is
 - a) 10
 - b) 8
 - c) 4
 - d) 16

9. COD means _____
- a) Chemical oxygen demand b) Carbon oxygen demand
c) Calcium oxygen demand d) Chlorine oxygen demand
10. Water pollution can be effectively controlled through
- a) Reduction in generation of water b) Reduction in concentration of chemicals used
c) Appropriate effluent treatment d) All the above

PART B (10 x 2 = 20 Marks)

11. Define mercerizing.
12. Compare hypochlorite and peroxide bleaching.
13. What is the role of salt and soda ash in reactive dyeing?
14. List different methods used to dye the polyester .
15. List any four important properties of thickeners.
16. State about different after treatments for printed goods.
17. Compare flat bed printing with screen printing.
18. What is sublimation transfer printing?
19. List the characteristics of dye house effluent.
20. List the ways to control the pollution in dye house effluent.

PART C (5 x 14 = 70 Marks)

21. a) With a neat sketch explain the process of gas singeing machine and list out their advantages

(OR)

- b) Explain with a neat sketch how cotton knitted fabric can be dyed using winch dyeing machine. Compare winch and jigger machine

22. a) Explain with a neat sketch how cotton fabric can be dyed in soft flow dyeing machine using reactive dyes.

(OR)

- b) Explain how Polyester Cotton blends can be dyed with two bath process.

23. a) (i) Explain with a suitable example about the styles of printing (10)

(ii) Write short notes on Tie and dye printing (4)

(OR)

b) Explain the application of different ingredients used for preparing printing paste.

24. a) Explain with a neat sketch the working of rotary screen printing machine

(OR)

b) Write a detail note on latest developments in printing

25. a) Explain in detail about the various operations carried out in effluent treatment plant

(OR)

b) (i) Write short notes on banned chemicals in wet processing (6)

(ii) Write short notes on computer colour matching system (8)
