

**B.TECH DEGREE EXAMINATIONS: NOV / DEC 2010**

Seventh Semester

**TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)**

U07FT703: Apparel Finishing and Care

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Identify the type of finish given to collar cloth  
A) Buckram finishes      B) back filling      C) crease resistance      D) wash n wear
2. Find out the incorrect statement  
A) The breakage of hydrogen bonds in the crystalline structure and the formation of new hydrogen bonds in the amorphous region cause the formation of creases  
B) Finishing increases the weight of the fabric  
C) Cotton material has comfort during wear  
D) Resin finishing allows the inter molecular slippage in the fibre core
3. Match the following  
P – water proof finish      ----- (i) water repellency & attractive finishes  
Q – The velan PF finish      ----- (ii) copper and mercury  
R - Mildew proof      ----- (iii) halogen compounds  
S - Flame retardant finish of polyester ----- (iv) cellulose acetate  
A) P-iv, Q-i, R –ii ,S- iii      B) P-i, Q-ii, R –iii ,S- iv  
C) P-ii, Q-iii, R –iv, S- i      D) P-iii, Q-iv, R –i, S- ii
4. Identify the material which will easily absorb soil  
A) Blouse piece      B) shirts      C) suitings      D) umbrella
5. Find out the odd statement  
Antistatic property can be brought by  
A) reducing charge      B) increasing the surface conduction power  
C) making the fibre hydrophilic      D) making the fibre hydrophobic
6. Mark the type of silicones group which improves the feel of Nylon fabric  
A) Hydrophilic modified silicones      B) Amino modified silicones  
C) Epoxy modified silicones      D) Carboxy modified silicones

7. Identify chemical which is used in Denim processing for decolourisation process  
 A) Sodium hydrosulphite B) sodium bisulphate C) DMDHEU D) OBA
8. The concentration of potassium permanganate for acid wash for Denim is  
 A) 0.1 -1.0% B) 1.5 -5.0 % C) 5-7 % D) 7-9%
9. Match the following  
 P – Plasma technology ----- (I) self cleaning effect  
 Q – Nanotechnology --- (ii) colloidal antimony pentoxide  
 R – Flame retardant finish – (iii) droplets are surrounded by a coating to give small capsule  
 S – Water proof finish ---- (iv) pollution free technology  
 A) P-iv, Q-i, R –ii ,S- iii B) P-i, Q-ii, R –iii ,S- iv  
 C) P-ii, Q-iii, R –iv, S- i D) P-iii, Q-iv, R –i, S- ii
10. Improvement of the capillarity of wool dyeing is given by ---- type of treatment  
 A) oxygen-plasma B)  $\text{SiCl}_4$  C) HMDSO<sub>4</sub>-plasma D) phosphorous containing monomers

**PART B (10 x 2 = 20 Marks)**

11. Give the desirable properties of sewing threads for garment manufacturing.
12. State the principle of winch dyeing machine.
13. Mention the problems and limitations of stone wash finish on garments.
14. Define sand blasting finish.
15. State the principle of sanforising treatment.
16. Mention the principle and requirements of water proof finish.
17. Specify the practical importance of Non-slip finishes.
18. Define bionic finish.
19. State the mechanism of staining
20. Suggest a suitable care labeling system for soil release finishes.

**PART C (5 x 14 = 70 Marks)**

21. a) Explain in detail any two garment dyeing machines working on the technique  
 (i) Goods and liquor are both in circulation and  
 (ii) by the type of machine construction.

**(OR)**

- b) Discuss on the various selection parameters to carry-out garment dyeing process.

22. a) Explain in detail the process of special washing treatments carried out for Denim fabrics.

**(OR)**

b) Write in detail about the different type of mechanical finishes carried over for wash down effects on dyed garments.

23. a) Explain in detail the finishing process adopted for water proof and flame proof fabrics.

**(OR)**

b) Write in detail the finishing process of Antistatic and Soil release finish given to textile materials.

24. a) Explain in detail the principle and application technique of micro encapsulated finishing on apparels.

**(OR)**

b) Discuss on the principle and application techniques followed in UV protection finish.

25. a) Write in detail the principle and removal techniques of stains in textile fabrics.

**(OR)**

b) Write short notes on the following:

(i) Garment laundering equipments and procedures

(ii) Care labels and standards

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