



Name :

Roll No. :

Invigilator's Signature :

CS/B.TECH(APM)/SEM-5/APM-504/2011-12

2011

FABRIC GARMENT AND FINISHING CARE

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) Dyeing is done in garment form because
 - a) it is cheap
 - b) it requires less dye
 - c) quickly adopts to fashion change
 - d) production is high.
 - ii) Denim is a fabric
 - a) made of polyester-cotton
 - b) with plain weave
 - c) dyed in fabric form
 - d) with twill weave.
 - iii) Winch is a machine used for
 - a) dyeing of delicate fabric
 - b) dyeing of garment
 - c) dyeing of yarn
 - d) denim wash.



- iv) Paddle dyeing requires
- a) higher liquor
 - b) less liquor
 - c) equal
 - d) undefined liquor
- v) German legislation has banned the use of which the following azo dyes ?
- a) all azo dyes
 - b) dyes releasing certain amines
 - c) none (no azo)
 - d) azo direct dyes only.
- vi) Carbon tetrachloride widely used as stain remover is
- a) very safe
 - b) non-volatile
 - c) corrosive
 - d) ozone-depleting solvent
- vii) Indigo is widely used for dyeing of denim fabric because it is
- a) highly wash-fast
 - b) poor wash-fast
 - c) poor rub-fast
 - d) poor light-fast
- viii) Resins are applied as finishing agent to improve
- a) crease recovery
 - b) water-repellency
 - c) water-absorbency
 - d) softness.



- ix) Permanent softness can be achieved by applying
- a) non-ionic softener b) anionic softener
- c) cationic softener d) laser treatment.
- x) Which of the following denim wash process is most eco-friendly ?
- a) laser wash b) stone wash
- c) acid wash d) sand blasting.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. What types (fibres) of garment are dyed in garment dyeing machines ? What classes of dyes are used in garment dyeing and why ?
3. Define eco-friendly, hazardous and ozone-depleting substances with one example each.
4. What is toxicity ? How is it assessed ?
5. Name a few hazardous substances popular in textile industry and suggest some eco-friendly substitutes.
6. Why and for what type of garment, dry cleaning is done ? Name a few dry cleaning solvents.
7. On what factors serviceability, durability and dimension stability of fabric/apparels depend ? $2 + 2 + 1$



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

8. What are the advantages and disadvantages of paddle type garment dyeing machines ? Describe a paddle type garment dyeing machine with sketch.
9. What is German ban ? What type of dyes are banned and why are those banned ? Describe the different ways in which pollution can be reduced in textile industry.
10. What are meant by eco-auditing and eco-labelling ? Describe Oeko-tex standard 100 or any other eco-label in brief.
11. What is denim wash ? Name different denim washing techniques and describe a method of denim wash in details.
12. What are the different types of finishes applied in garment form ? Describe a few in brief.
13. What do you meant by Uv-Protection finish of garment and what is Sun-Protection Factor (SPF) ? How is SPF measured ? $5 + 5 + 5$

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