



Name :

Roll No. :

Invigilator's Signature :

**CS/B.Tech(APM)/SEM-5/APM-504/2009-10
2009**

FABRIC AND GARMENT 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 ∞ 1 = 10

- i) Denim is a fabric with surface characteristic as
 - a) Warp-face
 - b) Weft face fabric
 - c) Plain weave
 - d) None of these.
- ii) For garment dying, sewing threads used during garment making should be made of
 - a) Cotton
 - b) Polyester
 - c) any fibre
 - d) fibre identical to that of garment.



- iii) Indigo is used for dyeing of denim fabric because it is
- a) very bright blue coloured
 - b) poor substantive
 - c) high substantive
 - d) very fast.
- iv) Denim washing is done with
- a) alkali and detergent
 - b) hydrogen peroxide
 - c) sodium hypochlorite
 - d) none of these.
- v) Eco-friendly bleaching may be done with
- a) sodium hypochlorite
 - b) hydrogen peroxide
 - c) sodium chlorite
 - d) none of these.
- vi) Natural dyes require which of the following auxiliary during dyeing ?
- a) Levelling agent
 - b) Exhausting agent
 - c) Mordants
 - d) None of these.
- vii) Socks and footwear are best dyed in
- a) rotary drum
 - b) tumbler
 - c) paddle dyeing machines.



viii) The enzymes used for denim wash are mostly

- a) lipase
- b) amylase
- c) cellulose
- d) none of these.

ix) Most of the banned (by German) dyes are

- a) direct dyes
- b) vat dyes
- c) pigments
- d) reactive dyes.

x) Garment dyeing machines are

- a) low liquor
- b) medium liquor
- c) high liquor dyeing machines.

GROUP – B

(Short Answer Type Questions)

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

2. What is toxicity ? Define the terms : LD50, LC50, poison and carcinogenic substances.
3. Name the various steps in textile processing and a few toxic substances used therein.
4. Name eco-friendly substitutes against some of the conventional textile chemicals.
5. What is biopolishing ? Describe the process briefly.
6. What are the advantages and disadvantages of use of natural dyes ?
7. What are the advantages and disadvantages of dyeing in garment form ?



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

$3 \times 15 = 45$

8. Why the use of some dyes was banned by German Senete in 1996 ? Describe briefly the dyes banned and their potential threat on environment. 5 + 10
9. What precautions are to be undertaken by textile industries in order to assure eco-friendly processing ? What is eco-auditing ? Name some of the parameters to be guaranteed and documented in eco-auditing. 7 + 2 + 6
10. What is eco-labelling ? Name few popular Eco-labels. Discuss the parameters/compounds to be detected for OEKO-Tex standard 100 label. 2 + 3 + 10
11. Name various garment dyeing machines. Describe one garment dyeing machine with line diagram stating merits-demerits. 2 + 10 + 3
12. What is meant by denim washing ? Name various denim washing processes. Describe one such process. 2 + 3 + 10
13. Write short notes on the following : $2 \times 7 \frac{1}{2}$
- a) pressing
- b) packaging.
-