

Invigilator's Signature :

Name :

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 :

 $10 \propto 1 = 10$

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

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- iii) Indigo is used for dyeing of denim fabric becaus
 - a) very bright blue coloured
 - b) poor substantive

high substantive

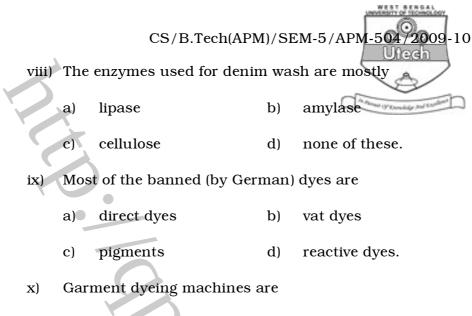
d) very fast.

c)

- 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.

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

GROUP – **B**

(Short Answer Type Questions)

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

- 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 ?

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GROUP – C

(Long Answer Type Questions) Answer any *three* of the following.

- 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 : $2 \propto 7\frac{1}{2}$
 - a) pressing
 - b) packaging.

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