

MAHRASHTRA STATE BOARD OF VOCATIONAL EXAMINATION, MUMBAI

EXAMINATION – JANUARY 2013

CERTIFICATE COURSE IN WET PROCESSING OF MAN-MADE TEXTILES (402205)

TIME ALLOWED – 3 HOURS

MARKS – 100

SUBJECT- WET PROCESSING & MAN MADE TEXTILE) (THEORY -III)

Instructions :—

- (1) Attempt any *five* questions. Question No. 1 which is *compulsory*.
- (2) Illustrate your answer with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable additional data, if necessary.

Q.1 Attempt any Five 20

- a) State the sequence of processes for wet processing of wool textiles.
- b) Describe objectives and types of preparatory processes for textiles.
- c) Name five fabric faults found in grey inspection.
Give three advantages of automated computer based inspection system.
- d) Describe mercerization of cotton fabric with its advantages.
- e) Describe raising process with factors affecting it & effects of raising.
- f) What is “ sanforising” ?
Explain the two types of shrinkages applicable to the textile fabrics.
- g) Describe decatizing of wool fabrics.

Q.2 Attempt any Two 16

- a) Give objective of shearing & cropping.
With a neat diagram describe modern shearing machine and its importance.
- b) State five reasons for singeing . Name three methods of singeing.
Describe gas singeing.
- c) Describe carbonising of wool.

Q.3 Attempt any Two 16

- a) Give three reasons for desizing as a separate operation for starch based sizes. Name four desizing methods. Describe acid desizing with two advantages and one disadvantage.
- b) What are enzymes? Name three advantages of using enzyme processes.
Describe enzyme desizing of starch containing cotton fabrics with its advantage and disadvantage.
- c) State objectives of silk degumming.
Name four methods of silk degumming.
Describe soap method with its two advantages and two disadvantages.

- Q.4 Attempt any Two 16
- a) Why wool can not be scoured with conditions of cotton scouring?
Name the stages of wool scouring. Name two methods of wool scouring.
Describe wool fibre scouring.
- b) Describe full white or double bleaching of silk.
- c) Describe preparatory processes for polyester cotton blend fabric.

- Q.5 Attempt any Two 16
- a) Describe bleaching with hydrogen peroxide with its five advantages and three disadvantages.
- b) Give chemical composition of cotton fibre.
Give four processes occurring in cotton scouring. Describe continuous scouring of cotton with two advantages and two disadvantages.
- c) Describe bleaching with sodium chlorite.
Give its four advantages and four disadvantages.

- Q.6 Attempt any Two 16
- a) Describe finishing. Explain various types of finishes.
- b) State any four objectives of calendering. Name four types of calenders.
Describe application of any one them.
- c) What are 'hand building' finishes? Name any three stiffening agents.
Describe application of any one.

- Q.7 Attempt any Two 16
- a) What are softeners? Give its four advantages and four disadvantages.
Name four types of softeners. Classify them according to fastness to washing.
- b) Give other three names of anti crease finishing. Explain the term 'resins'.
Name four different types of resins.
- c) Explain the creasing mechanism for cotton. Give a method to prepare crease resistant cotton. Explain the role of each chemical in the recipe.

- Q.8 Attempt any Two 16
- a) Describe cationic softener with its two advantages and two disadvantages.
Describe polyethylene emulsion softener with its two advantages and two disadvantages.
- b) Explain the difference between water repellent and water proofing.
Name three water repellent chemicals.
Describe any one with its two advantages and two disadvantages.
- c) Define: Flame retardant, flame proof, glow resistant, LOI.

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