

- Q.29 Discuss briefly merits and demerits of Acid & Enzymatic Desizing process.
- Q.30 What is Souring.
- Q.31 Why the use of rope washing machines is decreasing in industry.
- Q.32 Discuss briefly the bleaching of wool.
- Q.33 List merits and demerits of Roller and plate singeing
- Q.34 Discuss briefly working of kier with the help of a neat diagram?
- Q.35 Explain the process of enzymatic desizing.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain wool and silk bleaching process with recipe and process parameters with hydrogen peroxide?
- Q.37 Explain the working of any mercerizing machine.
- Q.38 Explain any two drying machines used in process house.

No. of Printed Pages : 4

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### 3rd Sem / Textile Processing / Text. Chem. Subject:- TOB -1 (Technology of Bleaching - I)

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Kiering is also known as \_\_\_\_\_  
 a) Bleaching                      b) Scouring  
 c) Finishing                      d) Desizing
- Q.2 The cellulosic material is treated with mild acids to remove traces of alkali in a process of \_\_\_\_\_  
 a) Bleaching                      b) Scouring  
 c) Souring                      d) Desizing
- Q.3 Mercerisation of cotton is done by using \_\_\_\_\_  
 a) NaOH                      b) Hcl  
 c) H<sub>2</sub>O<sub>2</sub>                      d) None of these
- Q.4 At what temperature is Rot steep process is done?  
 a) 40 C                      b) 70 C  
 c) 85 C                      d) Above 100 C
- Q.5 Write down Chemical formula of Universal bleaching agent?  
 a) Nacl                      b) Hcl  
 c) H<sub>2</sub>O<sub>2</sub>                      d) None of these

- Q.6 What is the full form of OBA?
- One Bleaching Agent
  - Optical Bleaching Agent
  - Optical Brightening Agent
  - None of these
- Q.7 \_\_\_\_\_ machine is used for scouring of cotton materials.
- Dryer
  - J Box
  - Hydroextractor
  - None of these
- Q.8 \_\_\_\_\_ is the safest method of desizing.
- Rot Steep
  - Acid
  - Enzymatic
  - None of these
- Q.9 Acid desizing process is done by using \_\_\_\_\_?
- NaCl
  - HCl
  - H<sub>2</sub>O<sub>2</sub>
  - None of these
- Q.10 Wetting agent is added to decrease the \_\_\_\_\_ of wayer.
- Surface Tension
  - absorbency
  - viscosity
  - None of these

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What is objective of Drying?
- Q.12 What is objective of singeing.
- Q.13 \_\_\_\_\_ type of singeing machine is mostly used in industries.

- Q.14 J box is used in \_\_\_\_\_ process (singeing / scouring)
- Q.15 What is the speed of fabric in plate singeing machine.
- Q.16 Write down the chemical formula of Bleaching powder.
- Q.17 What is souring.
- Q.18 What is the role of wetting agent.
- Q.19 What is kiering process.
- Q.20 What is objective of washing.

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss the detergency step in scouring process.
- Q.22 Discuss briefly stenter drying.
- Q.23 What physical and chemical changes take place in cotton after Mercerization?
- Q.24 Write a note on scouring of colored woolen goods.
- Q.25 Briefly write about the tight and slack rope washing machines.
- Q.26 What are the various impurities present in Raw cotton?
- Q.27 Distinguish between Souring and Scouring.
- Q.28 Differentiate between full bleach and semi bleach process.