

- Q.26 What is saponification?
 Q.27 Write short note on acid desizing.
 Q.28 Discuss briefly about hypochlorite bleaching?
 Q.29 List out the advantages of sodium hypochlorite bleaching?
 Q.30 Differentiate between souring and scouring?
 Q.31 Write short note on gas singeing?
 Q.32 Describe the working of tight rope washing machine?
 Q.33 List out various properties of bleaching powder?
 Q.34 List out various properties of hydrogen peroxide?
 Q.35 Discuss in brief about various defects in bleaching and their removal?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe the principle & various chemical actions involved in scouring of cotton. Also discuss industrial process with relevant recipe?
 Q.37 Discuss in detail any two drying machines used in textile industry?
 Q.38 With a neat diagram explain the construction & working of Pad chainless fabric mercerising machine?

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**3rd Sem / Textile Proc., Text Chem
Subject:- Technology of Bleaching - I**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 For how many time material is kept in chamber in cold pad bleaching?
 a) 06 hrs b) 08hrs
 c) 10 hrs d) 12 hrs
- Q.2 Which chemical is used for mercerization?
 a) NaOH b) Na₂CO₃,
 c) NaHCO₃ d) NaClO₂
- Q.3 Whats should be strength of NaOH for mercerization
 a) 42-44°Tw b) 44-46°Tw
 c) 48-50°Tw d) 52-54°Tw
- Q.4 Enzymatic desizing is done at _____?
 a) 40-50°C b) 50-60°C
 c) 60-70°C d) 70-80°C

Q.5 Which acid in acid desizing method?

- a) HCl
- b) HNO_3
- c) HCOOH
- d) CH_3COOH

Q.6 For how much time treated fabric is kept in Rot Steep method?

- a) 08 hrs
- b) 12 hrs
- c) 16 hrs
- d) 24 hrs

Q.7 How much time fabric is kept in bromitedesizing method?

- a) 6-20 minutes
- b) 20-30 minutes
- c) 30-40 minutes
- d) 40-50 minutes

Q.8 At what temp acid steep desizing is done?

- a) R.T.
- b) Boiling temp
- c) $60-70^\circ\text{C}$
- d) none of these

Q.9 Wax can be removed by _____?

- a) Saponification
- b) Emulsification
- c) Detergent
- d) none of these

Q.10 H_2O_2 is a _____?

- a) bleaching agent
- b) Scouring agent
- c) detergent
- d) none of these

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

Q.11 Name one natural impurity?

Q.12 Write one advantage of gas singeing machine?

Q.13 Name pH stabalizer used in peroxide bleaching?

Q.14 Name the chemical used for mercerisation.

Q.15 What pH range is required for peroxide bleaching?

Q.16 Name any one added impurity?

Q.17 What pH is required for peroxide bleaching?

Q.18 Bleaching powder is _____ hypochlorite (potassium / Calcium)

Q.19 Name the chemical used for mercerisation?

Q.20 Name one mercerising machine?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

Q.21 Discuss briefly about added impurities?

Q.22 Write short note on enzymatic desizing?

Q.23 Explain the role of stablizer in peroxide bleaching.

Q.24 Write about various changes during mercerisation?

Q.25 Write short note on scouring of coloured woven goods?