

- Q.25 List out the advantage of sodium hypochlorite bleaching?
- Q.26 Differentiate between souring and scouring?
- Q.27 Discuss briefly about added impurities?
- Q.28 Write short note on enzymatic desizing?
- Q.29 Explain the role of stabilizer in peroxide bleaching?
- Q.30 Write about various changes during mercerisation?
- Q.31 Write short note on scouring of coloured woven goods?
- Q.32 What is saponification?
- Q.33 Write short note on acid desizing?
- Q.34 Write short note on gas singeing?
- Q.35 Describe the working of tight rope washing machine?

## SECTION-D

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

- Q.36 With neat diagram explain the construction & working of pad chain mercerizing machine ?
- Q.37 With a neat diagram explain construction & working of J-box machine?
- Q.38 Discuss in detail any two washing machines used in textile industry?

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Roll No. ....

**3rd Sem / Branch : Textile Processing, 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) 08 hrs  
c) 10 hrs                     d) 12 hrs
- Q.2 Which chemical is used for mercerization?
- a) NaOH                      b)  $\text{Na}_2\text{CO}_3$   
c)  $\text{NaHCO}_3$                 d)  $\text{NaClO}_2$
- Q.3 Whats should be strength of NaOH for mercerization
- a)  $42-44^\circ$                       b)  $44-46^\circ \text{Tw}$   
c)  $48-50^\circ \text{Tw}$                   d)  $52-54^\circ \text{Tw}$
- Q.4 Enzymatic desizing is done at.....?
- a)  $40-50^\circ \text{C}$                       b)  $50-60^\circ \text{C}$   
c)  $60-70^\circ \text{C}$                       d)  $70-80^\circ \text{C}$
- Q.5 Which acid in acid desizing method
- a) HCl                          b)  $\text{HNO}_3$   
c)  $\text{HCOOH}$                       d)  $\text{CH}_3\text{COOH}$

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 bromite desizing 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°C                      d) None of these

Q.9 Wax can be removed by...?

- a) Saponification              b) Emulsification
- c) Detergency                      d) None of these

Q.10  $H_2O_2$  is a...?

- a) Bleaching agent
- b) Scouring agent
- c) Detergent
- d) None of these

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## SECTION-B

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

Q.11 Name one sineing machine.

Q.12 At what temperature enzymatic desizing is done.

Q.13 At what temperature scouring of cotton is done

Q.14 Name any one bleaching agent.

Q.15 Name one drying machine.

Q.16 At which stage bleaching is done

Q.17 Scouring in J box is done in \_\_\_\_\_ form (rope/openwidth)

Q.18 Desizing causes \_\_\_\_\_ in weight (loss/gain)

Q.19 Name one drawing machine.

Q.20 At what stage scouring is done.

## SECTION-C

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

Q.21 List out various properties of bleaching powder?

Q.22 List out various properties of hydrogen peroxide?

Q.23 Discuss in brief various defects in bleaching and their removal?

Q.24 Discuss briefly about hypochlorite bleaching?

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