

## **SECTION-D**

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

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

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**3rd Sem.**

**Branch : Textile Proc., Text Chem**  
**Sub: Technology of Bleaching-I**

**Time : 3 Hrs .**

**MM : 100**

## **SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory.** **(10x1=10)**

Q.1 Singeing is the process of removal of \_\_\_\_?

- a) Protruded fibres      b) Wax  
c) Starch                  d) Dirt

Q.2 Raw cotton contains \_\_\_\_\_ cellulose?

- a) 60-65%                  b) 55-60%  
c) 65-70%                  d) 80-85%

Q.3 Speed of fabric in plate singeing machine is \_\_\_\_?

- a) 135-225 mts/min      b) 260-300 mts/min  
c) 120-130 mts/min      d) 400-430 mts/min

Q.4 Acid steep method is used for

- a) Scouring                  b) Besizing  
c) Bleaching                d) Dyeing

Q.5 Scouring is process of removal of \_\_\_\_?

- a) Starch                    b) Colour  
c) Oil & Wax                d) None of these

- Q.6 Scouring in kier is done at \_\_\_\_?  
 a) Boiling temp                  b) 60-70°C  
 c) Room temp                  d) 135°C
- Q.7 pH for hypochlorite bleaching is  
 a) Below 5                  b) 5 to 8.5  
 c) Greater than 10                  d) None of these
- Q.8 Temp for H<sub>2</sub>O<sub>2</sub> bleaching is \_\_\_\_?  
 a) 55-60°C                  b) 80-85°C  
 c) 65-70°C                  d) 100°C
- Q.9 pH for H<sub>2</sub>O<sub>2</sub> bleaching is \_\_\_\_?  
 a) Below 5                  b) 5-7.5  
 c) 9-9.5                  d) 10.8 & 10.9
- Q.10 Which chemical is used for pH stabilizer in H<sub>2</sub>O<sub>2</sub> bleaching?  
 a) Sodium hydroxide                  b) Sodium silicate  
 c) Sodium carbonate                  d) None of these

### **SECTION-B**

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

- Q.11 AT which stage bleaching is done?
- Q.12 Scouring in J box is done in \_\_\_\_\_ form (rope/openwidth)
- Q.13 Desizing causes \_\_\_\_\_ in weight (Loss / gain)
- Q.14 Name one drawing machine.
- Q.15 At what stage scouring is done.

- Q.16 Name one singeing machine.
- Q.17 At what temperature enzymatic desizing is done.
- Q.18 At what temperature scouring of cotton is done.
- Q.19 Name any one bleaching agent.
- Q.20 Name one drying machine.

### **SECTION-C**

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

- Q.21 Discuss in brief what is detergency?
- Q.22 Explain the role of stabilizer in peroxide bleaching?
- Q.23 Briefly write about gas singeing machine?
- Q.24 Write the working of vapourloc machine?
- Q.25 What are the merits and demerits of plane singeing method?
- Q.26 What is emulsification?
- Q.27 Discuss the working of J-Box machine?
- Q.28 Discuss in brief about sodium chlorite as bleaching agent?
- Q.29 What is souring?
- Q.30 Briefly write about plate singeing machine?
- Q.31 What is mercerization?
- Q.32 Why do we use cleaning agents for scouring?
- Q.33 Why is enzymatic designing is most preferred.
- Q.34 Discuss in brief about rot steep method of desizing?
- Q.35 Write down objectives of drying process?