

- Q.28 Give advantages and disadvantages of multi stage bleaching
- Q.29 Define copper number
- Q.30 Write about the purpose of bleaching
- Q.31 Write note on chlorine dioxide bleaching
- Q.32 Write short note on brightness reversion of bleaching.
- Q.33 Write about the properties and uses of Hypochlorite
- Q.34 Discuss anyone washer with diagram.
- Q.35 Write a note on Why we need to bleach the pulp.

#### **SECTION-D**

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

- Q.36 Explain the different manufacturing method chlorine dioxide in industry
- Q.37 Define stages of bleaching. Explain any of stage with diagram
- Q.38 Write a short note on any three:
- Use of suphanic acid
  - Bsw pulp.
  - CEPED
  - Measurement of bleachability

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**3rd Sem / Chem. P & P  
Subject:- Pulp Bleaching**

Time : 3Hrs.

M.M. : 100

#### **SECTION-A**

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

- Q.1 \_\_\_\_\_ is the yellowness of pulp with spending of time is known as
- Colour reversion
  - Colour addition
  - Oxidation
  - None
- Q.2 Choose the formula of Hydrochloric acid.
- $H_3NSO_3$
  - $H_2SO_4$
  - $HNO_3$
  - HCL
- Q.3 Bleaching Stage are carried out consistencies for pulp bleaching are from \_\_\_\_\_
- 3-20
  - 40-80
  - 500-1000
  - 100-200
- Q.4 Another name of bleaching is delignification?
- True
  - False

**Q.5** Choose Reductive Chemical

- a) Ca
- b) CO<sub>2</sub>
- c) Cl
- d) H<sub>2</sub>O

**Q.6** ECF full form

- a) Element chlorine form
- b) Element chlorine free
- c) All of above
- d) None of above

**Q.7** The main purpose of bleaching of pulp is for \_\_\_\_\_ of pulp.

- a) Brightness
- b) washing
- c) cleaning
- d) None

**Q.8** What is chemical formula of hydrogen peroxide

- a) HO<sub>2</sub>
- b) HO
- c) H<sub>2</sub>O
- d) H<sub>2</sub>O<sub>2</sub>

**Q.9** Choose anyone bleaching process.

- a) O<sub>3</sub>
- b) CO
- c) H<sub>2</sub>SO<sub>4</sub>
- d) CACI<sub>2</sub>

**Q.10** Write formula of bleaching powder.

- a) CaCl<sub>2</sub>
- b) CaCO<sub>3</sub>
- c) CaCl
- d) Ca(ClO)<sub>2</sub>

## **SECTION-B**

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

**Q.11** What is the main Purpose of Pulp Bleaching.

**Q.12** Define Pulp Yield.

**Q.13** What is the Formula of Ozone.

**Q.14** Name any one Bleaching Chemical.

**Q.15** Expand CEHD.

**Q.16** Define Consistency.

**Q.17** Write full form of TCF.

**Q.18** What is Bleachability.

**Q.19** Write a use of Mixer.

**Q.20** Define Pulp.

## **SECTION-C**

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

**Q.21** Write the advantages of oxygen bleaching.

**Q.22** Discuss about the post color number.

**Q.23** Differentiate between agitator and mixer?

**Q.24** Explain the concept of bleaching powder

**Q.25** Write the advantages of oxygen bleaching

**Q.26** Write short note on peroxide bleaching

**Q.27** Discuss about ozone bleaching?