

- B) Morphological structure of fibre
- C) Kappa Number
- D) Importance of paper

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1st Sem.
Branch: Chemical Engg. (P&P)
Sub : Introduction to Pulp & Paper Technology

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- .Q.1 Where was the first paper made?
 - a) Sri Lanka
 - b) India
 - c) Pakistan
 - d) China
- Q.2 Formula of active alkali is:
 - a) $\text{NaOH}+\text{Na}_2\text{S}$
 - b) $\text{NaOH}+1/2 \text{Na}_2\text{S}$
 - C) $\text{NaOH}+\text{Na}_2\text{CO}_3$
 - d) None
- Q.3 Choose any one purpose of beating of pulp:
 - a) Cutting of fibre
 - b) Fibrillation of fibre
 - c) Mixing of fibre
 - d) Removing of fibre
- Q.4 Select the fruit fibre from the following
 - a) Cotton
 - b) Wood
 - c) Eucalyptus
 - d) Neem

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- Q.5 Select the property of cellulose
a) Inorganic b) Organic
c) Acidic d) None

- Q.6 Where is H-Factor used?
a) Chipping b) Screening
c) Cooking d) Bleaching

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Name any paper industry in India.
Q.8 Where is white liquor used?
Q.9 Name any one type of soft wood.
Q.10 Why is refining of pulp necessary?
Q.11 Which pulping of wood does not require chemical?
Q.12 What is bath ratio?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 Write a note on history of paper.

- Q.14 Explain any two factors important in site selection of an industry set-up.
Q.15 Define pulp consistency.
Q.16 What is reduction efficiency?
Q.17 Give the classification of fibrous raw material.
Q.18 Differentiate cellulose & hemi-cellulose.
Q.19 List any four advantages of sulphate pulping over soda pulping.
Q.20 Make a neat sketch of any one type of beater used in paper industry.
Q.21 Define displacement ratio.
Q.22 Write the difference between paper & paper board.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

- Q.23 Explain in detail the scope of paper technology.
Q.24 Give the classification of pulping process. Explain in detail.
Q.25 Write short notes on any two of the following:
A) BSW