

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 a) Name the factors that affect the location of any paper industry in India.

b) Briefly describe the following terms-
sulphidity, causticizing efficiency

Q.24 Define extractives. What are its types? Explain.

Q.25 Draw a block diagram to give an overview of paper making process.

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1st Sem. / Chem. P&P

Subject : Introduction to Pulp and Paper Technology

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The raw materials used for paper industry are

- a) bamboo b) sebia grass
- c) salia wood d) all of the above

Q.2 Fibre of _____ wood is longer

- a) hard wood b) soft wood
- c) grass d) none of the above

Q.3 The composition of active alkali is

- a) $\text{NaOH} + \text{Na}_2\text{S}$ b) $\text{NaOH} + 1/2 \text{Na}_2\text{S}$
- c) Na_2CO_3 d) NaHCO_3

Q.4 How many layers are there in a fibre wall?

- a) one b) two
- c) four d) six

(20)

(4)

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(1)

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Q.5 Name the central part of fibre structure

- a) primary wall b) lumen
- c) middle wall d) secondary wall

Q.6 The liquor consisting of NaOH+Na₂S is

- a) White liquor b) black liquor
- c) green liquor d) none of the above

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define paper.

Q.8 Define cellulose unit.

Q.9 Define pulp yield.

Q.10 Define bath ratio.

Q.11 Define pulp refining.

Q.12 Give an example of hard wood.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What are the problems of paper industry?

Q.14 What is the scope of paper industry?

Q.15 Write a short note on lignin.

Q.16 Write the properties of hemicellulose.

Q.17 Write a short note on dilution factor.

Q.18 What do you mean by kappa no.?

Q.19 Write a short note on soda pulping.

Q.20 What do you mean by pulp washing? Explain briefly.

Q.21 Define Pulping and name different types of pulping.

Q.22 Define Pulping and name different stages of pulping.