

SECTION-D

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

- Q.23 a) What are the properties of cellulose?
b) Briefly describe the following terms—
sulphidity, causticizing efficiency
- Q.24 Define extractives. What are different types of extractives. Explain them.
- Q.25 Briefly describe the working of pulping 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 Walnut tree is an example of
a) hard wood b) soft wood
c) both a & b d) none of the above
- Q.3 The composition of active alkali is
a) $\text{NaOH} + 1/2\text{Na}_2\text{S}$ b) Na_2CO_3
c) $\text{NaOH} + \text{Na}_2\text{S}$ d) NaHCO_3

Q.4 The liquor obtained after combustion of black liquor is

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

Q.5 Basic repeating unit of cellulose is known as

- a) Hemicellulose b) Cellulosane
- c) lignin d) Cellulose unit

Q.6 Summer wood is also known as

- a) Lighter wood b) Spring wood
- c) early wood d) late wood

SECTION-B

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

Q.7 Define paperboard.

Q.8 Define hemicellulose.

Q.9 Define pulp yield.

Q.10 Define cooking cycle.

Q.11 Define pulp refining.

Q.12 Write one property 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 Write the names of 4 paper mills in India?

Q.15 Write a short note on lignin.

Q.16 Write a short note on primary wall of fibre.

Q.17 Write a short note on dilution factor.

Q.18 What do you mean by permanganate number?

Q.19 Write a short note on mechanical pulping.

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

Q.21 What are different chemical components of wood? Name them.

Q.22 Define pulping. Name different stages of pulping.