

No. of Printed Pages : 4
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**1st year Branch : Chemical Engineering, P&P
Subject. : Introduction to Chemical Engineering &
Paper Technology**

Time : 3 Hrs.

M.M. : 60

SECTION-A

**Note: Multiple Choice Questions. All Questions are
compulsory. (6x1=6)**

- Q.1 Which of the following Chemical is used as part of pulp and Paper Industry.
- a) Black liquor
 - b) White liquor
 - c) Green liquor
 - d) All of these
- Q.2 Best quality Paper can be made by
- a) Softwood
 - b) Harwood
 - c) Grass
 - d) All of these
- Q.3 The fibre of _____ wood is generally longer
- a) Hardwood
 - b) Softwood
 - c) Grass
 - d) None of these
- Q.4 Pulp of paper industry does not consist _____ part in the making of paper
- a) Bleaching
 - b) Stock preperation
 - c) Chipping of wood
 - d) None of these

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- Q.5 Which process is used in paper industry
 a) Cutting of trees b) Stock preparation
 c) Mining d) All of these
- Q.6 The wood of walnut tree is an example of
 a) Hardwood b) Softwood
 c) Both A & B d) None of these
- Q.15 Explain Cooking cycle.
 Q.16 Write properties of cellulose.
 Q.17 Define Unit operation and Unit Process with example.
 Q.18 Write a note on Kappa number.
 Q.19 Write a note on Block liquor and white liquor?
 Q.20 Write a note on Bleachability?
 Q.21 Write a Short Note on Urea production?
 Q.22 Write a note on Bath ratio?

Section-B

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

- Q.7 Define Hardwood.
 Q.8 Write SI unit of Pressure.
 Q.9 Write full form of PFR.
 Q.10 What is the chemical formula of urea.
 Q.11 Name any two Paper Industries.
 Q.12 Medium required for conduction is _____ solid/Fluid.

Section-C

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

- Q.13 Write a note washing Efficiency.
 Q.14 Define Pulp Consistency.

Section-D

- Note: Long answer questions. Attempt any two questions out of three Questions.**
(2x8=16)
- Q.23 Define Paper and Give brief overview of process of paper making with the help of block diagram.
 Q.24 Describe the method of preparation of urea fertilization with the help of heat flow diagram.
 Q.25 Explain any two.
 1) Permanganate number
 2) Causticizing efficiency
 3) Bleachability

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