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180617/030626/

Roll No.

030564B/556

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 preparation
c) Chipping of wood d) None of these

- Q.5 Which process is used in paper industry
- a) Cutting of trees b) Stock pre-peration
- 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

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.

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- 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 Black 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-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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