

Q.21 Write properties of cellulose.

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Q.22 Write a note on Kappa number.

SECTION-D

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

Q.23 Describe the methods of preparation of any Fertilizer with the help of flow diagram.

Q.24 Describe the method of preparation of cement with the help of flow diagram.

Q.25 Give brief overview of process of paper making with the help of block diagram.

1st Year / Chemical Engg. (P & P)

**Subject : Introduction to Chemical Engineering
and Paper Technology**

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The wood of walnut tree is an example of

- a) Hardwood
- b) Softwood
- c) Both a and b
- d) None of these

Q.2 Pulp can be made by

- a) Softwood
- b) Hardwood
- c) Grass
- d) all of these

Q.3 The fibre of Hardwood is generally _____.

- a) Shorter
- b) Longer
- c) No fiber
- d) none of these

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Q.4 Pulp of paper industry consist which part in the making of paper

- a) Bleaching
- b) Stock preparation
- c) Chipping of wood
- d) all of these

Q.5 Which process is used in paper industry.

- a) Bleaching
- b) Stock preparation
- c) Chipping of wood
- d) all of these

Q.6 Which of the following Chemical is not used as part of pulp and Paper Industry.

- a) Black liquor
- b) White liquor
- c) Green Liquor
- d) None of these

SECTION-B

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

Q.7 Define Paper and Pulp both.

Q.8 Define Hardwood.

Q.9 Write name of any two paper industries in India.

Q.10 Write the S.I. unit of Heat.

Q.11 Write formula of causticity.

Q.12 Define thermal conductivity.

SECTION-C

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

Q.13 Define both Black and White liquor.

Q.14 Define Steam Capacity.

Q.15 Explain Fiber Morphology.

Q.16 Write a note on Factor effecting set up of Pulp and Paper industries?

Q.17 Give chemical composition of wood.

Q.18 Write a note on cooking cycle?

Q.19 Define fiber length, fiber dia and lignin content.

Q.20 Define Pulp, Paper and Paper Board?

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