

No. of Printed Pages : 4

Roll No.....

180617/30626/

030564B/556

1st Year Annual Pattern (Re-app)

Branch : Chemical Engg. (P&P)

Subject : Introduction of Chemical Engg & Paper

Technology
Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 Raw material of pulp is _____.

- a) Wood
- b) Glass
- c) Stone
- d) None

Q.2 Is NaOH used for paper making?

- a) Yes
- b) No

Q.3 Chipping is necessary to reduce _____ of wood.

- a) TemperAture
- b) Size
- c) Pressure
- d) None

Q.4 Choose the unit of temperature?

- a) °C
- b) °K
- c) °F
- d) All of above

Q.5 Expand AA?

- a) Active Acid
- b) Alkaline Acid
- c) Active Alkali
- d) None

- Q.6 Cellulose is _____.
a) Organic b) Inorganic
c) Alkali d) None

Section-B

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

- Q.7 Write any one importance of paper.
Q.8 Name any one standard term used in paper industry.
Q.9 Name any one agriculture residue.
Q.10 Write any one property of cellulose.
Q.11 What is the unit of pressure?
Q.12 Give any one use of fertilizers.

Section-C

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

- Q.13 Write unit processes with suitable examples.
Q.14 What is steam capacity?
Q.15 Write a note on displacement ratio.
Q.16 List five physical characteristics of raw materials used for paper making.
Q.17 Define pulp and paper.

- Q.18 Define permanganate number.
Q.19 What are extraneous components?
Q.20 Briefly describe the various contents of wood.
Q.21 What is thermal conductivity?
Q.22 Define reduction efficiency.

Section-D

Note: Long answer questions. Attempt any Two question out of Three Question. (2x8=16)

- Q.23 Draw a block diagram of manufacturing of petro chemicals.
Q.24 How do we measure moisture content of paper in lab? Explain in details.
Q.25 Define any two of the following:
a) Bath ratio
b) Causticizing efficiency
c) White liquor & Black liquor
d) Concept of unit operation