

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain in detail the classification of raw material.
- Q.4 Make a block diagram of pulp & paper making.
- Q.5 State the working principle of centricleaner in pulp mill. Explain the constructional & working of centricleaner with neat & clean sketch.
- Q.6 Define sulfate process. What are its advantages & disadvantages?
- Q.7 Write short notes on any two of the following
- a) Chemical debarking
 - b) Chipping
 - c) Sulphidity & causticity
 - d) Bio pulping

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Roll No.

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3rd Sem. / Chemical (P&P)

Subject : Pulping Processes

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Write the formula of cellulose.
 - b) What is bark?
 - c) What is the chemical name of ash?
 - d) Expand BHR.
 - e) Define yield.
 - f) Which screen is used for removing the knots in pulp.
 - g) Write the thickness of middle lamella of fiber.
 - h) Which pulping does not require chemical.

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- i) List any four types of chipper used for chipping of wood.
- j) Give advantage of sulphite process.
- k) What is the pH range in chlorine tower during bleaching of pulp?
- l) Define block liquor.
- m) What is hollocellulose?
- n) Write one advantage of stone ground wood pulping.
- o) Give the formula of causticity.
- p) Why kappa No is determined.
- q) Write the formula for consistency.
- r) What is makeup chemical?
- ii) Give the outline of secondary fiber pulping.
- iii) What is bath ratio? Why it is maintained in the digester?
- iv) Describe storage of chips.
- v) Define active alkali & Total titrable alkali
- vi) Differentiate soda & sulfate pulping.
- vii) Explain any two properties of chips.
- viii) Give the classification of pulping.
- ix) Draw neat sketch of long tube evaporator.
- x) What are equation used in causticizing?
- xi) Define morphological structure of fiber.
- xii) Explain anthraquinone pulping.
- xiii) Describe semichemical pulping in brief.
- xiv) Define H-factor
- xv) Write any four difference between softwood & hardwood.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

Q.2 i) Make a neat sketch of Gyrotory chip screen.

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