

### SECTION-C

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

- Q.3 Explain in detail the scope of paper technologist in a paper mill.
- Q.4 List various types of papers & explain their properties & used of any two.
- Q.5 Explain three stage counter current washing with neat sketch.
- Q.6 Consistency of 5.0 Ton of pulp is to be reduced from 10% to 2%. Calculate the quantity of water required for this purpose.
- Q.7 Write short notes on any two of the following.
- (a) Specific gravity.
  - (b) Classification of fibrous raw material.
  - (c) Chemical recovery.
  - (d) Hand made paper.

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No. of Printed Pages : 4

Roll No. ....

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**2nd Sem. / P&P**

**Subject : Int to Pulp and Paper Tech**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

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

- Q.1 a) Mention the scope of paper Technology.
- b) Write any one function of paper Technology.
- c) Give the any one name of wood used for making paper.
- d) What do you mean by papyrous?
- e) Name one factor used for site selection for setting up in industry.
- f) What is the concept of unit operation.
- g) Define pressure.
- h) Write the unit of density.
- i) Write one effect of temperature on thermal

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conductivity.

- j) Define paper.
- k) What is bark?
- l) Name any one agriculture residue used for making paper.
- m) Write formula of cellulose.
- n) Convert 75° C into °F.
- o) Name any one chemical used in bleaching of pulp.
- p) Which raw material is used for secondary fiber pulping?
- q) What is Luman?
- r) Name types of pulping (Any two).

### SECTION-B

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

- Q.2
- i) Define in brief the history of paper making.
  - ii) Write any four career opportunities for paper technologist.

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- iii) Explain the unit process in chemical industry.
- iv) Draw neat sketch of morphological structure of fiber.
- v) Define white liquor.
- vi) Explain kraft process.
- vii) What is consistency?
- viii) Write a note on industrial paper.
- ix) Name various parameter used in bleaching of pulp.
- x) Define causticizing efficiency.
- xi) Write the name of properties of chips (Any five).
- xii) Give any four advantage of sulfate process over soda process.
- xiii) What is wet web pressing?
- xiv) Write the process of board making.
- xv) What is ash?

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