

SECTION-C

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

- Q.3 Describe with neat labeled diagram the working of a fourdrinier machine. Explain its parts in brief.
- Q.4 Explain with neat sketch the working of any one twin wire former.
- Q.5 Explain Webstorm theory of Suction presses.
- Q.6 Explain with neat sketch the working of a pick-up sheet transfer process.
- Q.7 Explain with neat diagram any one pressure screen used ahead of head box.

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4th / 5th Sem. / Chem (P&P)

Subject : Paper Making - I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 a) Define grammage.
b) Define crowning.
c) Define wet web pressing.
d) Write the function of guide role.
e) Write the formula for calculating the machine speed.
f) Define pulp consistency.
g) Define vena contracta.
h) Define white water.
i) Write the difference between screening and cleaning.

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120646

- j) What is the function of lump breaker roll and where it is located?
- k) Write the causes of sheet crushing & how it can be rectified?
- l) Name any two flow spreaders.
- m) Define the function of head box slice.
- n) Write two advantages of hydrafoils over table rolls.
- o) Define the function of doctor blade.
- p) Write the function of dandy roll.
- q) Define the function of save-alls.
- r) Name any two vacuum pumps used in paper mills.

SECTION-B

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

- Q.2
- i) Write in brief the start up duties of a machine tender.
 - ii) Write the advantages of closed head over open head box.

(2)

120646

- iii) Write short note on press felt treatment.
- iv) Explain in brief the working of an open head box.
- v) Define flow diagram of approach flow system.
- vi) Explain in brief the working of a suction press.
- vii) Write down the different types of press arrangements.
- viii) Explain the working of a hydra foils.
- ix) Write any Eight duties of a machine tender.
- x) Explain in brief the working of a pressurised (closed) head box.
- xi) Explain in brief the working principle of a centricleaner.
- xii) Explain in brief the press section variables.
- xiii) A machine is running at a speed of 300 meter / minute. Calculate the head required in a head box.
- xiv) Explain in brief any one wire changing method.
- xv) Explain in brief the working of a Nash pump.

(3)

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