

### SECTION-D

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

- Q.23 Explain general practices for paper machine safety and safety reminders.
- Q.24 Explain with neat diagram the working principle of multi cylinder dryer section used for news print section.
- Q.25 Explain with neat diagram the working of blow through system used for the disposal of the condensate.

No. of Printed Pages : 4

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Roll No. ....

**5th Sem / Chemical ( Pulp & Paper)**

**Subject : Paper Making - II**

Time : 3 Hrs.

M.M. : 60

### SECTION-A

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

- Q.1 Sweat dryer function is -
- a) Wetting                      b) drying
  - c) Softness                      d) None of the above
- Q.2 Heat transfer occurs due to
- a) Concentration difference
  - b) temperature differ
  - c) potential difference
  - d) height difference
- Q.3 Supercalendars in a stack consists rolls of
- a) all metal
  - b) all fibrous
  - c) mixture of metal & fibrous
  - d) None

Q.4 Sheet blackening is due to

- a) crushing                      b) high crown
- c) Excessive moisture      d) Less moisture

Q.5 For calender paper, dryer used is

- a) M.G. dryer                      b) M.F. dryer
- c) Drum dry                      d) All

Q.6 Humidification is the process of addition of moisture in

- a) steam                              b) gas
- c) air                                  d) water

### SECTION-B

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

Q.7 Define pulp consistency.

Q.8 Write the functions of doctor blade.

Q.9 What is the purpose of using sweat dryer.

Q.10 Define relative humidity.

Q.11 Define saturated steam.

Q.12 Define basis weight.

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### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain with neat diagram the constant rate and falling rate drying.

Q.14 Explain in brief with neat diagram the construction details of cylinder dryer.

Q.15 Write advantages of closed hood system over open hood system.

Q.16 Define the need of dryer felt & its advantages.

Q.17 Describe different factors affecting rate of heat transfer and how can we minimise their effects.

Q.18 Explain in brief the working of rotary siphon.

Q.19 What are the reasons of hard and soft spots? How can we minimize their effect?

Q.20 Explain in brief the manufacturing process of hand made paper

Q.21 Explain embossing with neat diagram

Q.22 A paper machine is producing paper of 80 gsm at a speed of 200m /minute if deckle of the machine is 200 cm & efficiency 90% . Calculate production in tonne/day.

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