Q.32 Explain in brief the manufacturing process of hand made paper.

Q.33 Explain with neat sketch the working of paper calender.

Q.34 Write short note on pocket ventilation.

Q.35 Write the main functions of dryer felts. Also write its advantages and disadvantages.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain with neat sketch the working and operation of multi cylinder dryer section use of manufacturing newsprint.

Q.37 Write general practices for paper machine safety and safety reminders.

Q.38 A paper machine is producing 200 tonne/Day of paper with 5% moisture content. If consistence at different sections are as follows!

At head box = 1%

After couch roll = 18%

After press section = 38%

Calculate the amount of water removed at wire part, press section and water evaporated at the dryer section.

No. of Printed Pages : 4 180654/120654/30665

Roll No. .....

5th Sem / Branch : P & P

Sub. : Paper Making II

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 For calender paper, dryer used is

a) M.F. Dryer b) M.G. Dryer

c) Drum Dryer d) All

Q.2 Roll crowing is

a) Raised portion b) Lower portion

c) Flat portion d) All

Q.3 The bottom roll largest in dia meter in calender stock is know as

a) Queen roll b) King roll

c) Largest roll d) Bottom roll

Q.4 Super calendering is done to increase:

a) Roughness b) Gloss

c) Smoothness d) Thickness

Q.5 Starch is used on the dryer section for

a) Internal sizing b) Surface sizing

c) Coating d) All

Q.6 Pope reel works on the principle of

a) Pushing b) Pulling

c) Friction d) Smoothness

Q.7 A ream consists of

a) 100 papers b) 200 papers

c) 500 papers d) 1000 papers

Q.8 Largest dryer cylinder used for drying tiffin paper is

a) Dryer b) M.F. dryer

c) M.G dryer d) All

Q.9 Basis weight is

a) $\frac{kg}{m^2}$ b) $\frac{kg}{cm^2}$

c) $\frac{gm}{cm^2}$ d) $\frac{gm}{m^2}$

Q.10 Factors affecting ratio of heat transfer is dryer section

a) Scale b) Condensate

c) dryer surface d) All

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define consistency.

Q.12 Why drying is needed?

Q.13 define dew point.

Q.14 Define saturated steam.

Q.15 Define embossing.

Q.16 Write the main purpose of using sweat dryer.

Q.17 Write the function of rope carrier.

Q.18 Write the main difference between paper & board.

Q.19 Write production formula.

Q.20 Write main advantage of twin wire former over fourdrinier machine

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Define humidity and relative humidity.

Q.22 Explain with neat diagram the working and constructional details of cylinder dryers.

Q.23 Write the advantages of closed hood over open hood system.

Q.24 Explain in brief & with neat sketch the working & operation of paper calendering.

Q.25 Explain in brief the working and operation of paper reel.

Q.26 Explain with neat sketch embossing machine.

Q.27 Write in brief the manufacturing process of cheque & currency papers.

Q.28 Explain the working of any siphon in brief.

Q.29 Explain the different factors affecting rate of heat transfer in the cylinder dryer.

Q.30 A paper machine is producing 80 gsm paper at a speed of 200 m/min of deckle of the machine is 200 meter and efficiency 80%. Calculate production in donne/day.

Q.31 Explain constant rate and falling rate drying.