

- Q.31 Briefly describe specialty paper.
 Q.32 Define the term pH.
 Q.33 Name any four instruments used in measuring the paper properties.
 Q.34 Explain the procedure to determine the moisture content of paper in laboratory.
 Q.35 Write a short note on sheet strength.

Section-D

- Note:** Long answer Questions. Attempt any two Questions out of three Questions. (2x10=20)
- Q.36 Define pigment coating. Name the coater used for coating. Explain any one with neat and clean diagram.
 Q.37 Write 5 important properties of currency paper, photographic, paper and wax paper.
 Q.38 Describe the two directions of paper in detail.

No. of Printed Pages : 4 180666/120666/30666

Roll No.....

6th Sem,

Branch : Chemical Engg. (Pulp & Paper)

Subject : Paper properties and conversion

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What
 Q.1 Yellowing of paper on aging is due to high percentage of _____.
 a) Fibers b) Dye
 c) Ash d) Rosin
 Q.2 Choose adhesive used in coating.
 a) TiO^2 b) Protein
 c) $CaCO_3$ d) None
 Q.3 What is the unit of basic weight?
 a) g/Sec² b) g/m
 c) g/m² d) g/sec
 Q.4 Choose the direction of paper
 a) Cross b) Felt
 c) Wire d) None
 Q.5 Which property of paper is measured by taber instrument?
 a) Gloss b) Ash

- c) Porosity d) Stiffness
 Q.6 _____ is very important in bag papers, filter paper
 a) Porosity b) Stiffness
 c) Softness d) Gloss
- Q.7 What is the greatest cause of rejection of paper?
 a) Softness b) Thickness
 c) appearance d) Stiffness
- Q.8 Good condenser paper should have _____ ash content.
 a) Low b) High
 c) Medium d) None
- Q.9 The principle adhesive used in coating are starch and _____.
 a) Rosin b) Casein
 c) Ash d) None
- Q.10 Choose the name of specialty paper
 a) Butter paper b) Toilet paper
 c) Tissue paper d)all

Section B

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

- Q.11 Name any one electrical property of paper.
 Q.12 Define ash.,
 Q.13 Name the instrument used for measuring thickness of paper.

- Q.14 Write any one reason of two sidedness of paper.
 Q.15 Define direct.
 Q.16 Write one importance of toilet paper.
 Q.17 Expand the term TAPPI.
 Q.18 Write the optical properties of paper.
 Q.19 What is the effect of filler on density of paper?
 Q.20 What is ash content?

Section-C

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

- Q.21 How we determine ash content of paper in laboratory? Write in detail.
 Q.22 Explain stress strain curve of paper.
 Q.23 Briefly discuss porosity of paper.
 Q.24 Define curl and cockling.
 Q.25 Discuss the important properties and uses of photogenic paper.
 Q.26 Differentiate between on machine and off machine coating.
 Q.27 Draw a neat sketch of knife coater.
 Q.28 Define the term hardness of paper.
 Q.29 Describe coating mixture preparation and the pigment coating process.
 Q.30 Explain the orientation of fibers in the paper machine and the effect of wire side and felt side on it.