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- 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/Sec^2 b) g/m
c) g/m^2 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 toiled 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.