

SECTION-C

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

- Q.3 Explain in detail the orientation of fiber in paper machine.
- Q.4 List chemical properties of paper. Explain ash content of paper.
- Q.5 What is coating. Name various types of coater. Describe Air knife coater with neat sketch.
- Q.6 Explain the significance of dielectrics constant & dielectric loss as properties of paper.
- Q.7 Write short notes on any two of the following :-
- (a) Porosity of paper
 - (b) IEA
 - (C) Coating mixture preparation
 - (d) Important properties of paper.

(120)

(4)

120666/30666

No. of Printed Pages : 4

Roll No.

120666/30666

6th Sem. / Chemical Engg. (P&P)

Subject : Paper Properties And Conversion

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- a) Expand GSM.
 - b) Mention any one effect of orientation of fiber on paper.
 - c) Which property is required in currency paper?
 - d) What is ash?
 - e) Name any two speciality papers.
 - f) Where condenser paper is used?
 - g) What are standard conditions for testing of paper in lab?
 - h) Write the name of any one type of coater.

(1)

120666/30666

- i) Why table rolls are used in paper machine?
- j) Which property of paper is greater in cross direction?
- k) Name any one pigments used in coating.
- l) Why CaCO_3 is used in cigarette paper?
- m) Define the term PH.
- n) Mention the unit of bursting strength in SI unit.
- o) Write the importance of Tensile strength.
- p) Write the name of MG and MF.
- q) Which property is important in bag paper?
- r) What is the effect of rosin on paper?

SECTION-B

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

- Q.2
- i) Write any four effect of density on paper properties.
 - ii) List optical properties of paper. Explain any one.

(2)

120666/30666

- iii) Define moisture content of paper & their significance.
- iv) Write a note on speaker paper.
- v) Draw neat sketch of tensile tester.
- vi) Why coating of paper important?
- vii) State any four used of toilet tissue paper.
- viii) Define curl & Cockling.
- ix) Define wire side & felt side of paper.
- x) What are specility papers.
- xi) Write a note on strength properties of paper.
- xii) Mention & four defect of paper.
- xiii) Give the application of wax paper.
- xiv) Write any four methods used for measuring smoothness of paper.
- xv) Draw a graph for stress strain curves of paper made at different, humidity.

(3)

120666/30666