

SECTION-D

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

- Q.23 List various Electrical properties of paper. Explain application of electrical paper.
- Q.24 Explain in detail density of paper. What are the relation of density with their sheet properties?
- Q.25 Write short note on any two of the following .
- a) Cross direction & machine direction
 - b) Curl & cockling
 - c) Air knife coater
 - d) Packaging papers

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220651

Roll No.

5th Sem / Chemical (Pulp & Paper)

Subject : Paper Properties

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Which side of paper is smooth?
- a) Wire side b) Felt side
 - c) Machine side d) Cross side
- Q.2 What is the unit of basis weight of paper?
- a) Meter b) Centimeter
 - c) gm/m^2 d) Kg/m^2
- Q.3 What is the wavelength of white light?
- a) 400-500 milimicron b) 400-600 milimicron
 - c) 400-700 milimicron d) 400-800 milimicron

- Q.4 How much temperature is maintained in oven during measurement of moisture content of paper?
- a) 90°C b) 95°C
c) 100°C d) 105°C
- Q.5 Which type of paper have maximum folding endurance?
- a) currency paper b) Tissue paper
c) kraft paper d) News paper
- Q.6 In which year the first paper coated on two sides was made?
- a) 1875 b) 1885
c) 1895 d) 1900

SECTION-B

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

- Q.7 Which property of paper is affected by the orientation of fiber in paper machine?
- Q.8 Write unit caliper of paper
- Q.9 Name any one fibrous material which affect the density of paper?

(2)

220651

- Q.10 Expand the term AD.
- Q.11 Name the instrument used for measuring the tearing resistance of paper.
- Q.12 Name any one pigment used in coating?

SECTION-C

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

- Q.13 Draw neat sketch of Elmendorf tear tester.
- Q.14 Define PH.
- Q.15 Differentiate on machine & off machine coating.
- Q.16 Define TEA.
- Q.17 Explain basis weight of paper.
- Q.18 Define orientation of fiber.
- Q.19 Differentiate wire side & felt side of paper.
- Q.20 Briefly explain opacity of paper.
- Q.21 What is the significance of moisture content?
- Q.22 Give any two applications of wax paper.

(3)

220651