

- Q.25 Draw a neat sketch of Elmendorf tear tester.
- Q.26 Write a note on brightness of paper.
- Q.27 Briefly explain opacity of paper.
- Q.28 Define PH.
- Q.29 What is color revision?
- Q.30 Write a note on transformer paper.
- Q.31 How coating mixture is prepared.
- Q.32 Differentiate on machine & off machine coating.
- Q.33 Give any two applications of wax paper.
- Q.34 What is the significance of moisture content?
- Q.35 Define TEA.

#### SECTION-D

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

- Q.36 Explain in detail density of paper. What are the relation of density with other sheet properties?
- Q.37 List various Electrical properties of paper. Explain application of electrical paper.
- Q.38 Write short note on any two of the following.
- Cross direction & machine direction
  - Curl & cockling
  - Air knife coater
  - Photographic paper.

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**6th Sem / P&P**

**Subject:- Paper properties & Conversion**

Time : 3Hrs.

M.M. : 100

#### SECTION-A

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

- Q.1 Which side of paper is smooth?
- Wire side
  - Felt side
  - Machine side
  - Cross side
- Q.2 Choose the property of paper which is greater in cross direction?
- Folding Strength
  - Tensile Strength
  - Bursting Strength
  - None
- Q.3 What is the unit of basis weight of paper?
- Meter
  - Centimeter
  - gm/m<sup>2</sup>
  - Kg/m<sup>2</sup>
- Q.4 Ratio of change in dimensions to the original dimensions is called \_\_\_\_\_?
- Stress
  - Strain
  - Force
  - Thickness of paper

- Q.5 What is the wavelength of white light?
- a) 400-500 milimicron b) 400-600 milimicron  
c) 400-700 milimicron d) 400-800 milimicron
- Q.6 Which property of paper is measured by Mullen tester?
- a) Thickness b) Basis weight  
c) Bursting strength d) Tearing strength
- Q.7 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.8 Choose the earliest method of coating.
- a) On machine b) Off machine  
c) Size press d) None
- Q.9 Which type of paper have maximum folding endurance?
- a) Currency paper b) Toilet paper  
c) Kraft paper d) News paper
- Q.10 Where condenser paper is used?
- a) Telephonic equipment  
b) Gas turbine power plant  
c) Pulp mill operation  
d) None

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## SECTION-B

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

- Q.11 Which side of paper have higher percentage of short fiber.
- Q.12 How much time is required conditioning of paper.
- Q.13 Expand the term AD.
- Q.14 Write the name of instrument used for testing of degree of fiber orientation.
- Q.15 Name any one fibrous material which affect the density of paper.
- Q.16 On which side of paper postage stamps are printed?
- Q.17 Which is more important in using a paper-Area or volume.
- Q.18 Name any one pigment used in coating.
- Q.19 Name any one optical property of paper.
- Q.20 Write the any one application of toilet paper.

## SECTION-C

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

- Q.21 Define orientation of fiber.
- Q.22 Differentiate Wire side & felt side of paper.
- Q.23 Explain basis weight of paper.
- Q.24 Describe the method of measuring porosity of paper.

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