

- Q.29 What is brightness?
 - Q.30 Explain various coating processes used in paper industry.
 - Q.31 What is dimensional stability of paper?
 - Q.32 Write application of speciality papers.
 - Q.33 What is the effect of dye stuff on opacity?
 - Q.34 Draw a neat sketch of quadrant scale.
 - Q.35 Write a note on unsatisfactory appearance of paper.

SECTION-D

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

- Q.36 What is pigment coating. Explain in detail the working of on machine and off machine coating.

Q.37 What do you understand by sheet strength? Explain the bursting strength of paper.

Q.38 Describe the construction and working of vortex meter.

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6th Sem / Branch : Chemical Engg. (Pulp & Paper)

Sub. : Paper properties and Conversion

Time : 3Hrs. M.M. : 100

M.M. : 100

SECTION-A

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

- Q.1 Which filler is used to increase brightness of paper?

 - a) H_2SO_4
 - b) CO_2
 - c) Na_2SO_4
 - d) TiO_2

Q.2 _____ paper is used to wrap food for cold storage.

 - a) Hard
 - b) Currency
 - c) Wax
 - d) None

Q.3 Choose any one property of paper

 - a) Breaking length
 - b) Double fold
 - c) Tensile strength
 - d) All

Q.4 The first two sided coated paper was made in _____ year.

 - a) 1875
 - b) 1975
 - c) 1850
 - d) 1900

- Q.5 _____ is used for measuring bursting strength.
a) Beater b) Muller
c) Roller d) None
- Q.6 _____ pressure is maintained in thickness tester
a) 7 to 9 PSI b) 9 to 11 PSI
c) 5 to 7 PSI d) 5 to 9 PSI
- Q.7 What is the SI unit of tensile strength?
a) N/m b) N/m²
c) m²/N d) m/N
- Q.8 _____ Paper has maximum folding endurance.
a) Toilet b) Butter
c) Currency d) Wax
- Q.9 Expand the term AD.
a) Air drum b) And dry
c) All dry d) Air Dry
- Q.10 Which property is greater across machine direction of paper.
a) Tearing b) Folding
c) Moulding d) None

SECTION-B

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

Q.11 Where condenser paper is used?

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- Q.12 What is the standard conditioning time for testing of paper?
- Q.13 Name any one paper which required opacity.
- Q.14 Define formation.
- Q.15 Name any two types of coating.
- Q.16 Which side of paper is called wire side?
- Q.17 Why gas mask filter have porosity?
- Q.18 What is the significance of gloss in paper?
- Q.19 How beating can effect bursting strength of paper?
- Q.20 Expand TEA.

SECTION-C

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

- Q.21 What is curl of paper?
- Q.22 Mention the parameters why coating of paper is important.
- Q.23 What is stress and strain?
- Q.24 Mention any 5 defects of paper.
- Q.25 What is bulk and bulking thickness?
- Q.26 Define dielectric constant and explain its significance.
- Q.27 What is meant by opacity of paper? Explain its determination.
- Q.28 Define sheet strength.

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