

- Q.30 What is stock shade matching? How the dyes pigments and other coloring materials are added to this?
- Q.31 What do you understand by direct nationality of paper? Explain.
- Q.32 Classify wet-end chemical additives.
- Q.33 Draw a neat sketch of hydropulper.
- Q.34 Mention the methods to improve optical properties of paper.
- Q.35 Write a note on measurement of wetability.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What is the significance of loading & filler materials used in paper? Discuss their advantages & disadvantages in detail.
- Q.37 Write notes on the following: (a) Optical whitener used in paper making (b) Aging of paper.
- Q.38 Explain the working of thickeners with help of neat diagram.

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Roll No.

5th Sem / Branch : P & P Sub.: Stock Preparation-II

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Write the formula of Cellulose
- a) $(C_6H_{10}O_5)_n$ b) $C_6H_{10}O_8$
- c) $C_6H_5O_3$ d) CH_3COOH
- Q.2 Choose the property of $CaCO_3$
- a) Toxic b) None Toxic
- c) Poison d) None
- Q.3 Choose the chemical used for making cigarette paper
- a) TiO_2 b) Soap Stone
- c) Al_2O_3 d) $CaCO_3$
- Q.4 Choose any sizing material used in paper industry
- a) $CaCO_3$ b) Alum
- c) TiO_2 d) None
- Q.5 Choose the different symbol of dark grade roisin
- a) BB b) BP
- c) A & B d) None

- Q.6 Choose the chemical used as alum
 a) HCL b) Al_2O_3
 c) FeCl_2 d) All of above
- Q.7 What is the relative index of burnt gypsum (peral filler)
 a) 1.42-3.3 b) 1.57-1.61
 c) 2.3-3.2 d) 3.5-4.6
- Q.8 Choose the consistency of PFI mill
 a) 8% b) 7%
 c) 6% d) 10%
- Q.9 Choose chemical formula of abietic acid
 a) $\text{C}_{19}\text{H}_{29}\text{COOH}$ b) $\text{C}_{16}\text{O}_{17}\text{COOH}$
 c) CH_3COOH d) $\text{C}_{18}\text{H}_{19}\text{COOH}$
- Q.10 Expand pH
 a) Potential hydro b) Potential hygro
 c) Potential hydrogen d) None

SECTION-B

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

- Q.11 Give a name of any one retention aid chemical.
- Q.12 Write name of any filler used in stock preparation.
- Q.13 What is the formula of soap stone?
- Q.14 Name the test by which rosen content can be checked from rosen size solution.

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- Q.15 Write the different symbols of transparent grade rosin.
- Q.16 What is the significance of cob test?
- Q.17 Name the filler that provides maximum opacity in paper sheet.
- Q.18 Which meter generally helps to measure the concentration of alum?
- Q.19 Which grade rosins are used for dark colored paper?
- Q.20 Which chemical is used to increase the brightness of paper?

SECTION-C

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

- Q.21 List types of loading materials.
- Q.22 What is the function of retention aids?
- Q.23 Draw a neat sketch of any one refiner.
- Q.24 Define consistency.
- Q.25 What is additive property of natural light?
- Q.26 Write a note on cold process for preparation of resin.
- Q.27 Write a note on chemistry of wet strength chemicals.
- Q.28 Write a note on maintenance of machinery.
- Q.29 Differentiate between floatation type and filtration type fiber recovery system. Explain with example.

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