Q.29 Name various factor that effect retention of chemicals.

Q.30 Define acid & basic dyes.

Q.31 What is two sidedness of paper?

Q.32 Name any five advantages of natural sized paper?

Q.33 Explain various qualities in context to good quality of paper production.

Q.34 Draw a neat flow diagram for the manufacturing of rosin size by hot process.

Q.35 What is guar gum?

SECTION-D

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

Q.36 Differentiate between floatation type & filtration type fiber recovery system. Explain with example.

Q.37 Find out the consistency of 150m3 pulp slurry containing 10kg of OD fiber.

Q.38 Write short notes on any two of the following.

a) Chest & agitators
b) Consistency
c) Manufacture of AKD size
d) Stock flow diagram

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5th Sem / P & P
Subject:- Stock Preparation - II

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 In which section of paper mill alum is used?

a) Chipper house b) Digester house
c) Bleaching section d) Stock preparation

Q.2 Which is the chemical formula of aluminum sulphate?

a) AI_2SO_4 b) $AI_2(SO_4)_2$
c) $AI_2(SO_4)_3$ d) $AI_2(SO_4)_4$

Q.3 $CaCO_3$ is used in paper industry as_____

a) Maintaining PH b) A pigment
c) Maintaining Temp. d) None

Q.4 Choose any one type of refiner used in stock preparation.

a) Broad refiner b) Modern refiner
c) Jorden refiner d) None

Q.5 Which one is method of preparation of resin size?

a) Hot process b) Annealing process
c) Hardening process d) None

Q.6 Why pigments are used?

a) To increase consistency
b) To increase PH
c) To give color
d) None

Q.7 Write the function of agitator.

a) increasing temp.
b) Increasing fiber length
c) Mixing by stirring
d) None

Q.8 Choose the property of $CaCO_3$

a) Toxic b) Non toxic
c) Poison d) None

Q.9 What is consistency of PFI mill.

a) 5% b) 10%
c) 15% d) 20%

Q.10 Write chemical formula of cellulose.

a) $(C_6H_{10}O_5)_n$ b) $C_6H_{10}O_5$
c) $(C_6H_5O_{10})_n$ d) $(C_6H_5O_5)_n$

SECTION-B

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

Q.11 Write the symbol of transparent grade rosin.

Q.12 Name a chemical formula of soap stone.

Q.13 Expand CMC.

Q.14 Name any one type of fiber recovery system.

Q.15 Name the filler which provide the maximum opacity in the paper sheet.

Q.16 For which type of pulp the direct dye provide best coloring effect.

Q.17 What is the purpose of stock chest.

Q.18 How many gram of OD pulp is required in PFI mill for beating?

Q.19 Write any one substitute for alum.

Q.20 Give any one advantage of surface sizing.

SECTION-C

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

Q.21 Define PH.

Q.22 Write a note on preparation of resin size by cold process.

Q.23 Differentiate internal & surface sizing.

Q.24 Describe concentration measurement procedure of alum.

Q.25 Explain specific function of loading material in relation to grades of paper produced.

Q.26 List any five types of dyes used in paper industry.

Q.27 Explain sedimentation type of fiber recovery system.

Q.28 What do you mean by blending of chemicals?