Q.27 List any five effect of starch upon the paper quality.

Q.28 Draw a neat sketch of beater/ refiner.

Q.29 Discuss the various type of strength improving chemicals used in paper making.

Q.30 What do you understand by two sidedness of paper?

Q.31 What are optical whiteness?

Q.32 Define significance of color kitchen.

Q.33 A stock chest is having 120m 3 pulp slurry of 6% consistency. How much water will be required to dilute its consistency from 66% to 3%.

Q.34 Why CMC is used?

Q.35 Describe the use of floatation operation in fiber recovery system.

SECTION-D

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

Q.36 Draw the neat flow diagram for various stock system illustrating stock chest agitator & other equipment.

Q.37 Discuss the advantage & disadvantage in details of loading & filler materials used in paper.

Q.38 Write a short notes on any two of the following.
   a)   Surface sizing
   b)   Retention aids
   c)   Shade matching
   d)   Wet strength chemicals

(20)   (4)   180652/120652/030662

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   Find one sizing material used in paper industry of the following
   a)   Alum   b) $CaCO_3$
   c) TiO_2 d)   None

Q.2   What is the formula of alum?
   a) $AI_2(SO_4)_2$ b) $AI_2(SO_4)2H_2O$
   c) AI_2SO_4 d)   None

Q.3   Choose any loading material used in paper making
   a) $AI_2(SO_4)_2$ b) $CaCO_3$
   c) H_2SO_4 d)   None

Q.4   What is stock preparation?
   a)   Loading   b)   Beating
   c)   Refining   d)   All of the above

(1)   180652/120652/030662

Q.5　Expand MVT.

a)　Moisture vapour time

b)　Moisture vapour temp

c)　Moisture vapour Treatment

d)　None

Q.6　Which of the following is a type of beater additives?

a)　Starch　　　　　b)　Guar gum

c)　CMC　　　　　d)　All of the above

Q.7　Hot process is used to prepare_____

a)　Alum　　　　　b)　Resin

c)　TiO_2　　　　　d)　None

Q.8　Where floatation type system is used?

a)　Stock preparation　b)　Fiber recovery

c)　Coloring Matter　d)　None

Q.9　Which chemical is used for making cigarette paper?

a)　$CaCO_3$　　　　b)　TiO_2

c)　CH_3COOH　　d)　Soap stone

Q.10　Choose the substitute of alum.

a)　Calcium chloride food grades

b)　Cream of tartal

c)　Piekling spice

d)　All of the above

SECTION-B

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

Q.11　Give any one use of sizing of paper.

Q.12　Which process hot/cold is best for preparation of resin size?

Q.13　Write any one method to prepare alum solution.

Q.14　Mention any one function of loading material.

Q.15　Why beater additives are used?

Q.16　Expand CMC.

Q.17　Which method is used to check a mixed dye?

Q.18　What is the function of save all?

Q.19　What is used to measure the concentration of alum?

Q.20　Why clay is used in stock preparation?

SECTION-C

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

Q.21　Define sizing materials.

Q.22　Write a note on hot process.

Q.23　Describe any one method of preparation of alum solution.

Q.24　List various loading materials, Describe any one.

Q.25　Briefly describe various type of beater additives.

Q.26　Define consistency.