

- Q.27 Why over cooked pulp is difficult to wash?
 Q.28 Define thickening factor
 Q.29 Write a note on loading factor
 Q.30 Explain the working of gravity centrifugal screen.
 Q.31 What are variables(any five) affecting screen performance?
 Q.32 Define black liquor.
 Q.33 Explain generation & maintenance of vacuum.
 Q.34 Differentiate between cleaning & screening.
 Q.35 Write a note of storage of pulp.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain the start up and shut down procedure brown stock washing.
 Q.37 List various types of screen. Explain the construction & working detail of any one types of screen with suitable diagram.
 Q.38 Write a short note on any two of the following:

- a) Centrifugal screen
- b) Displacement rates
- c) Production rates
- d) Generation of vacuum

No. of Printed Pages : 4 180632/120632/030643
 Roll No.
 /0645

3rd Sem / Chem. P & P Subject:- Pulp Washing and Cleaning

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Explain DF
 - a) Dilution factor b) Direct feed
 - c) Dead feed d) None
 Q.2 What is the unit of pressure?
 - a) Decible b) kg
 - c) Meter d) None
 Q.3 What is the purpose of centricleaners?
 - a) To remove air from pulp
 - b) To remove dirt from pulp
 - c) To remove shives from pulp
 - d) All of the above
 Q.4 Where black liquor is separated from pulp?
 - a) Washing b) Bleaching
 - c) Screening d) None

Q.5 Cleaning of pulp is based on _____

- a) Density
- b) Size
- c) Shape
- d) None

Q.6 Choose type of pulp screen

- a) Vibratory
- b) Gyratory
- c) Pressure
- d) All

Q.7 Rotary drum filter is _____

- a) Batch process
- b) Continuous process
- c) Both a & b
- d) None

Q.8 Why thickening is carried out?

- a) To decrease consistency
- b) To increase consistency
- c) To maintain temp of pulp
- d) None

Q.9 All chemicals used in W/L are expressed as _____

- a) Na₂O
- b) Na₂S
- c) Na₂SO₄
- d) Na₂so₃

Q.10 Number of washers in brown stock washing.

- a) 1
- b) 2
- c) 3
- d) 4

SECTION-B

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

Q.11 What is the importance of washing?

Q.12 Which equipment is used to separate out the shives from pulp?

Q.13 Mention the unit of vacuum.

Q.14 Give formula of expression of screening quotient.

Q.15 Write a variable affecting efficiency of loading factor.

Q.16 Name filter media used in rotary vacuum filter.

Q.17 Expand BSW

Q.18 Why kappa no. is used?

Q.19 Name any two types of washer.

Q.20 What is soda loss?

SECTION-C

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

Q.21 What do you mean by high heat diffusion washing?

Q.22 Discuss the concept of dilution factor.

Q.23 List various types of pulp screen.

Q.24 Define permagnet no.

Q.25 Differentiate counter current & co current.

Q.26 Draw a neat sketch of rotary drum vacuum filter