

- 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:
- Centrifugal screen
 - Displacement rates
 - Production rates
 - Generation of vacuum

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

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- 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) Na_2O b) Na_2S
c) Na_2SO_4 d) Na_2SO_3
- 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