

- Q.28 Discuss machine speed.
 - Q.29 How is GSM of paper measured?
 - Q.30 Briefly give the working pressure screen.
 - Q.31 Why trimming is required on paper machine?
Explain
 - Q.32 Differentiate open & closed of suction press.
 - Q.33 Explain web storm theory of suction press.
 - Q.34 Define flow diagram of approach flow system.
 - Q.35 Explain the working of a hydrofoils.

SECTION-D

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

- Q.36 Explain in detail the description of modern foundrinier paper machine.

Q.37 A paper machine running at 725m/min. Calculate the head required in head box.

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

 - Recovery of chemicals
 - Cycloidal vacuum pump
 - Press felt treatment
 - Head box level

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SECTION-A

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

- Q.1 On which principle cleaning is based?

a) Size b) Shape

c) Density d) All of the above

Q.2 Formula of jet velocity.

a) $(2gh)^{1/2}$ b) $(gh)^{1/2}$

c) $2gh$ d) gh

Q.3 Choose the unit of basis weight.

a) Gm/inch b) Gm/m²

c) meter d) kg

Q.4 The _____ extends from machine chest to the head box slice.

a) Screen system b) Approach flow system

c) Process d) None

Q.5 Formula of production paper is product of speed of paper machine, & basis weight of paper.

- a) Bulk density b) Deckle of paper
- c) Acidity of paper d) None

Q.6 Paper is _____ in character.

- a) Neutral b) Alkaline
- c) Acidic d) None

Q.7 PH of solution is _____ logarithmic of hydrogen ion concentration.

- a) Negative b) Positive
- c) Addition d) None

Q.8 What is the PH of white water?

- a) Less than 7 b) More than 7
- c) 7 d) None

Q.9 Dryness of paper web is expressed in _____

- a) Mole% b) Percentage
- c) Weight fraction d) None

Q.10 Filler & loading material in paper are _____ material.

- a) Inorganic b) Organic
- c) Both a & b d) None

SECTION-B

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

Q.11 Which equipment lie between the distributor & slice?

- Q.12 Expand GSM.
- Q.13 Write the formula of pulp consistency.
- Q.14 Mention any one type of slice.
- Q.15 What is the pressure screen?
- Q.16 Write the unit of vaccum.
- Q.17 Which instrument is used for measuring basis weight of paper?
- Q.18 Give any one function of suction press.
- Q.19 Name any one type of slice.
- Q.20 The _____ is usually the main drive roll entire fourdrinier.

SECTION-C

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

- Q.21 Explain cleaning of stock ahead of the paper machine.
- Q.22 Write a note on head box.
- Q.23 Describe twin wire vertical sheet formation system.
- Q.24 Express the significance about water conservation.
- Q.25 Define turbo compressor.
- Q.26 Give the working of suction roll.
- Q.27 Mention the working operation of cylinder mold machine.