MAX. MARKS: 100

Reg. No.							

B.E./ B.TECH. DEGREE EXAMINATIONS, MAY 2024

Eighth -Semester

CH18024 - PULP AND PAPER TECHNOLOGY

(Chemical Engineering)

TIME:3 HOURS

(Regulation 2018/2018A)

111			79: 1	100				
COU OUTC				RBT LEVEL				
CO 1	Identify the importance of paper industry with their applications.							
CO 2	Explain the basic characteristics of the raw materials for paper making.							
CO 3	CO 3 Apply the knowledge about various unit operations in pulping processes.							
CO 4	Interpret the processes involved in the manufacture of paper.			5				
CO 5	Explain the various testing and evaluation procedures for different types of	f paper.		5				
PART- A(10x2=20Marks)								
	(Answer all Questions)							
			CO	RBT LEVEL				
1.	1. Compare papyrus and parchment.							
2.	2. Mention the three main components of pulp.							
3. Differentiate long fiber pulp and short fiber pulp.								
4. Outline the important properties of the wood that are important for pulping.								
5. Classify the four broad categories of pulping processes.								
6. Enlist the burr patterns used for sharpening the pulp stones for stone groundwood								
	production.							
7. Summarize about functional additives.								
8.	8. Mention the significance of dandy roll.							
9. Outline the testing methods used for brightness reversion of bleached chemical pulps.								
10.	10. Relate pulp viscosity to average chain length of cellulose.							
	DADT D (7 14 70M 1)							
	PART- B (5x 14=70Marks)	Marks	CO	RBT LEVEL				
11. (a	Explain in detail about the Industrial revolution of the 18th and 19th	(14)	1	3				
centuries which brought about significant changes in paper manufacturing								
	technology?							
(OR)								
(b	Explain briefly about the developments of paper industry in India.	(14)	1	3				

(Q.No.16 is compulsory)

			Marks	CO	RBT LEVEL
16.	(i)	Interpret the importance of pulping variables for wood and wood	(5)	2	5
		chips.			
	(ii)	Assess the reasons for non-wood items are used as a raw material.	(5)	2	5
