

B.Tech. Final Year Seventh Semester (Food, Pulp & Paper, Oil & Paint & Petro. Tech.) (CGS)

11068: Pulp & Paper Technology - IV: 7 PT 03

P. Pages: 1 Time: Three Hours			AW - 3391 Max. Marks : 80	
	Notes: 1. 2. 3. 4. 5. 6.	Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Diagrams and chemical equations should be given wherever necessary. Illustrate your answer necessary with the help of neat sketches. Discuss the reaction, mechanism wherever necessary. Use of pen Blue/Black ink/refill only for writing the answer book.		
		SECTION - A		
1.	How an	d why stuff has to change to furnished?	14	
		OR		
2.	Explain	basic operations are to be carried out for production of paper in stock preparation.	14	
3.		the role of hollander beater in paper manufacturing process? How strength ies are incorporated in beater?	13	
		OR		
4.	How fre	eeness tester control the beating time? Explain with graphical representation.	13	
5.		Refiners plays important role in paper manufacturing process". Justify with to it's functioning.	13	
		OR		
6.	Compar	re the advantages and disadvantages of conical refiners and disk refiners.	13	
		SECTION - B		
7.		the sizing process. Explain their advantages & disadvantages. List out the als used in sizing operations.	14	
		OR		
8.		the role of surface tension, porosity and thickness of paper and board affects the properties.	14	
9.		various fillers used in filling process. What are the essential properties must by a good filler? How are they loaded in stock?	13	
		OR		
10.	Discuss	the theories of retention of fillers.	13	
11.	Define	wet end additives. Why starch is preferred as most popular additives?	13	
		OR		
1,2.	Explain	the pre treatment of fresh water for pulp manufacturing process.	13	



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