Q.31	31 State and drive continuity equation.			No. of Printed Pages : 4 Roll No					
Q.32	Drive an expression for velocity to be measured by pitot tube.				126933/116933				
				3rd Sem. / Rubber Tech.					
SECTION-D				Subject : Unit operations - I					
Note	:Long answer type questions	s. Attempt any three	Time	e : 3 Hrs.	M.M. : 100				
	questions out of four question	· · · · · · · · · · · · · · · · · · ·	SECTION-A						
Q.33	Explain any ten difference be and Gyratory Crusher.	etween Jaw crusher	<b>Note:</b> Objective type questions. All questions compulsory (10x1:						
Q.34	34 Explain working of plate and frame filter press			The study of liquids at rest	is called				
	with neat sketch.		Q.2	Newton's law of viscosity states that					
Q.35	Drive a expression for rectangular weir.	discharge over a	Q.3	Q.3 Intensity of pressure may be measured in					
<b>∩</b> 36	Drive an expression for p	Q.4	A barometer is used to me	asure					
<b>Q</b> .50	measured by a U - tube diffe		Q.5	Q.5 Kinetic head in Bernoulli's theore					
				·					
			Q.6	Orifice meter is used to me	easure				
			Q.7	The loss of head due to s pipe is given by	udden enlargement o				
			Q.8	A hydraulic pump is a d	evice which converts				
(40)	(4)	126933/116933		(1)	126933/116933				

Q.9	Size reduction is a process of breakdown of solids into smaller size particles.			Q.20 Define mixing.								
• 40				Q.21 Define kneader.								
Q.10	Q.10 are used for continuous mixing.				Q.22 Define masticators.							
	SECTION-B					91	ECTION-C					
<b>Note:</b> Very short answer type questions. Attempt any ten questions out of twelve questions. (10x2=20)					Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)							
Q.11	Define fluids		Q.23	3 Explain difference between crushing and grinding operation.								
Q.12	Define Viscosity.	Q.24	24 Explain working of a vibrating screens.									
Q.13	Q.13 Define mechanical gauge.				.25 Explain working of electrostatic separator.							
Q.14 Define uniform flow.					Explain limitation of Dead weight			ght pr	pressure			
Q.15	Define orifice.			gauge. Any five.								
Q.16	Define reciprocating pum		Q.27 Explain classification of fluids.									
	Q.17 Define weight fraction.					Q.28 Explain the characteristic curves of a centrifugal pump.						
Q.18 Define ball mill.					Q.29 Write a short note on material balance.							
Q.19	Define electrostatic separ		Q.30 Explain factors influencing the size of product.						of the			
	(2)	126	3033/116033				(3)	12	6033/·	116933		