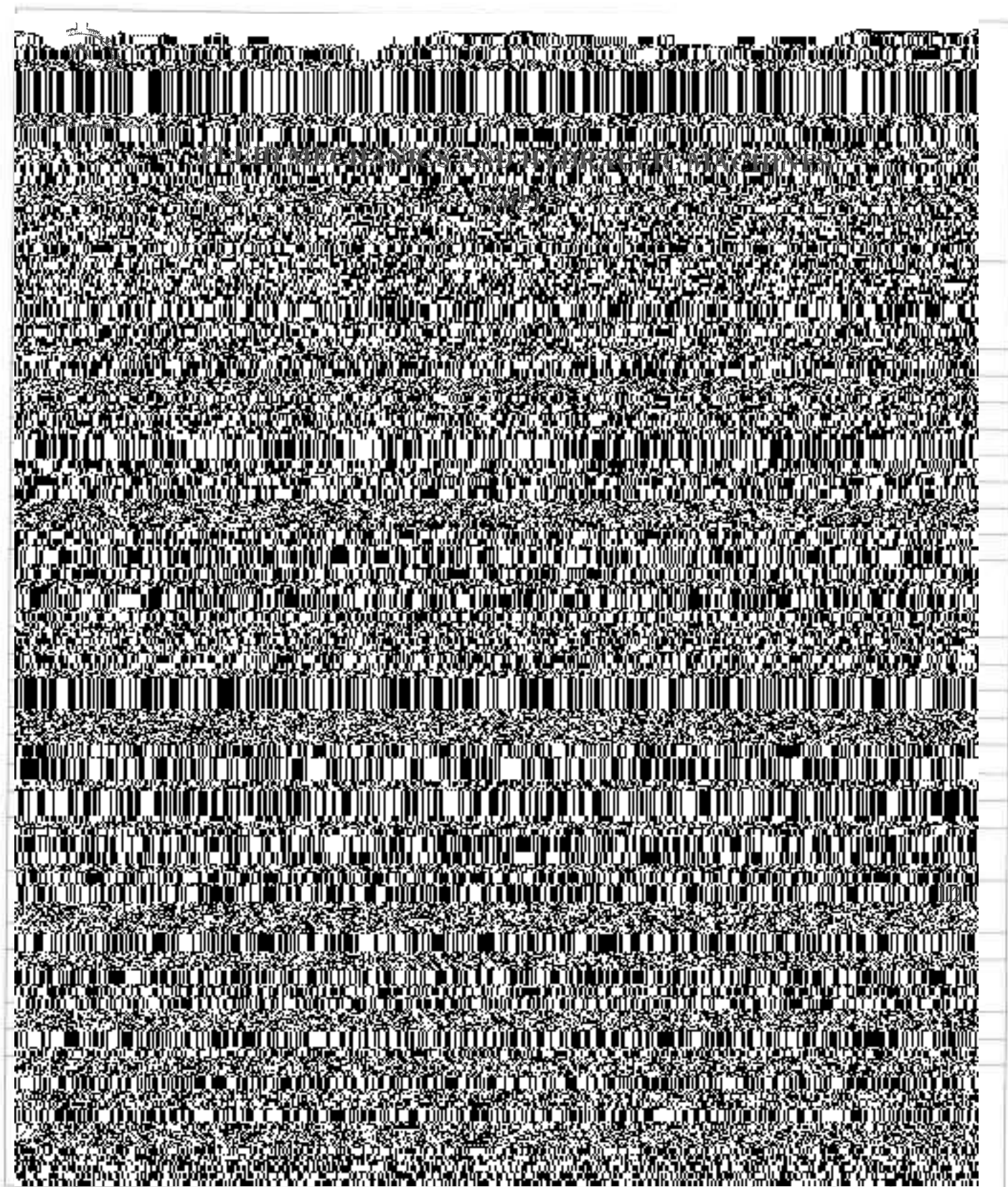




17	Derive an expression for force exerted by the jet on a stationary unsymmetrical curved vane, strikes at tip of the vane	10M	4	L2
	OR			
18	A Pelton wheel working under a head of 52 m develops a shaft power of 92 kW at a speed of 250 rpm. If the overall efficiency is 82.5% and $C_v = 0.98$, find the jet diameter, the diameter of the bucket circle, the size of the buckets and the number of buckets required. Assume maximum efficiency condition that the peripheral velocity is 0.47 times the velocity of the jet.	10M	4	L2
19	How do you Classify the pumps?	10M	5	L2
	OR			
20	Draw and explain Reciprocating pump with neat sketch.	10M	5	L2