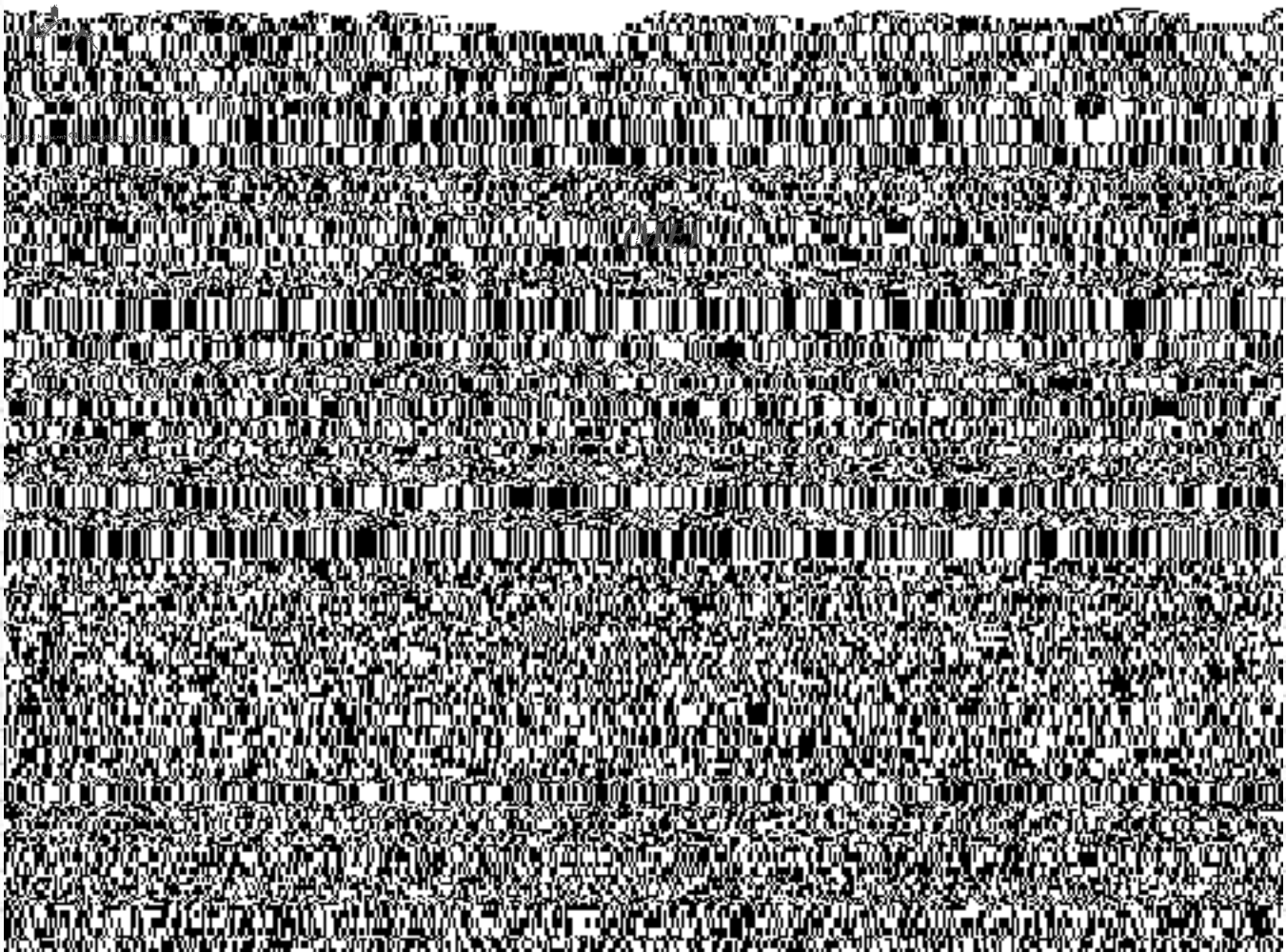




2 L2

2

3

17	Briefly explain about the Compressibility chart with a neat sketch.	10M	4	L2
	OR			
18	The volume of a high-altitude chamber is 40 m^3 . It is put into operation by reducing pressure from 1 bar to 0.4 bar and temperature from 25°C to 5°C . How many kg of air must be removed from the chamber during the process? Express this mass as a volume measured at 1 bar and 25°C .	10M	4	L2
19	Briefly explain various processes of an Otto cycle with the help of p-v diagram only.	10M	5	L2
	OR			
20	An engine of 250 mm bore, and 375 mm stroke works on Otto cycle. The clearance volume is 0.00263 m^3 the initial pressure and temperature are 1 bar and 50°C . If the maximum pressure is limited to 25 bar find the air standard efficiency of the cycle.	10M	5	L2