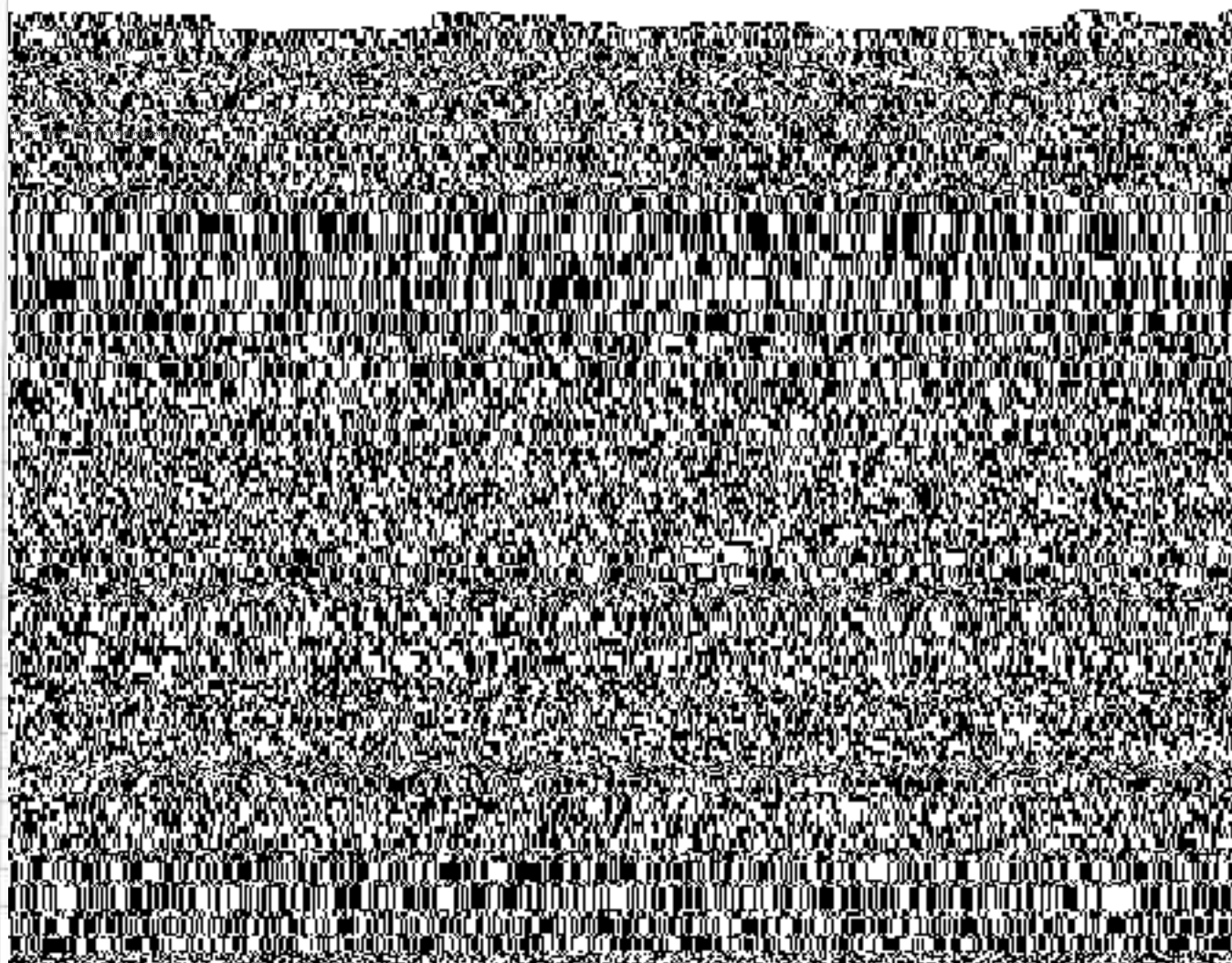




2

L2

16	Define angle modulation? Derive mathematical expressions for angle modulation.	10M	3	L2
17	Derive the figure of merit of SSB system.	10M	4	L2
	OR			
18	Explain the operation of Pre emphasis and Deemphasis in FM system.	10M	4	L2
19	Explain the basic characteristics of Receivers in detail.	10M	5	L2
	OR			
20	For a broadcast superheterodyne AM receiver having no RF amplifier, the loaded Quality factor Q of the antenna coupling circuit is 100. Now if the intermediate frequency is 455 KHz, then, determine the following: (i) the image frequency and its rejection ratio at an incoming frequency of 1000 KHz. (ii) the image frequency and its rejection ratio at an incoming frequency of 25 MHz.	10M	5	L2