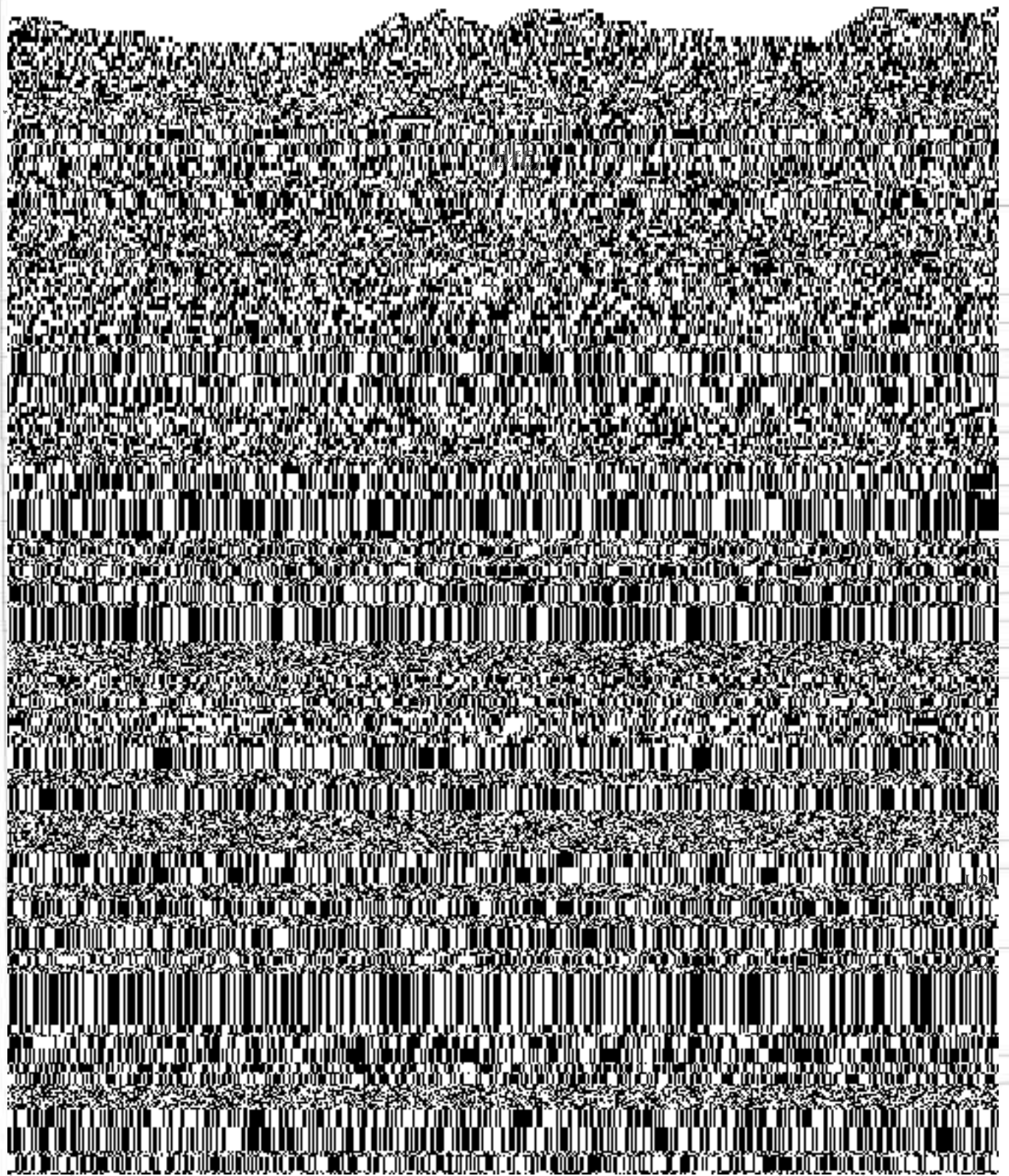




15	A) Draw and explain the operation of full wave rectifier with L-section filter. B) In a full wave using LC filter $L=15\text{H}$, $C=50\mu\text{F}$, $R_L=100\Omega$. Calculate V_{dc} for an input of $V=20\sin\omega t$ by choosing $R_f=R_s=70\Omega$.	6M 4M	3	L2
	OR			
16	A) Write a neat diagram and explain working principle of full wave bridge rectifier. B) A half wave rectifier has a load of $3.5\text{K}\Omega$. If the diode resistance and secondary coil resistance together have a resistance of 800Ω and the input voltage has a signal voltage of peak value 240V . Calculate (i) Peak, Average and RMS value of current flowing (ii) DC power output	6M 4M	3	L2
17	Explain input and output characteristics of CE configured transistor circuit with a neat circuit diagram.	10M	4	L2
	OR			
18	Draw the Fixed bias circuit and derive the stability factor for it along with explanation	10M	4	L2
19	Convert the following a) $(567.4)_8 = (?)_2$ b) $(101101.10101)_2 = (?)_{16}$ c) $(AC569)_{16} = (?)_8$ d) $(198.23)_{10} = (?)_2$ e) $(12654)_8 = (?)_{16}$	10M	5	L2
	OR			
20	Explain in detail half adder and full adder with logic diagrams	10M	5	L2