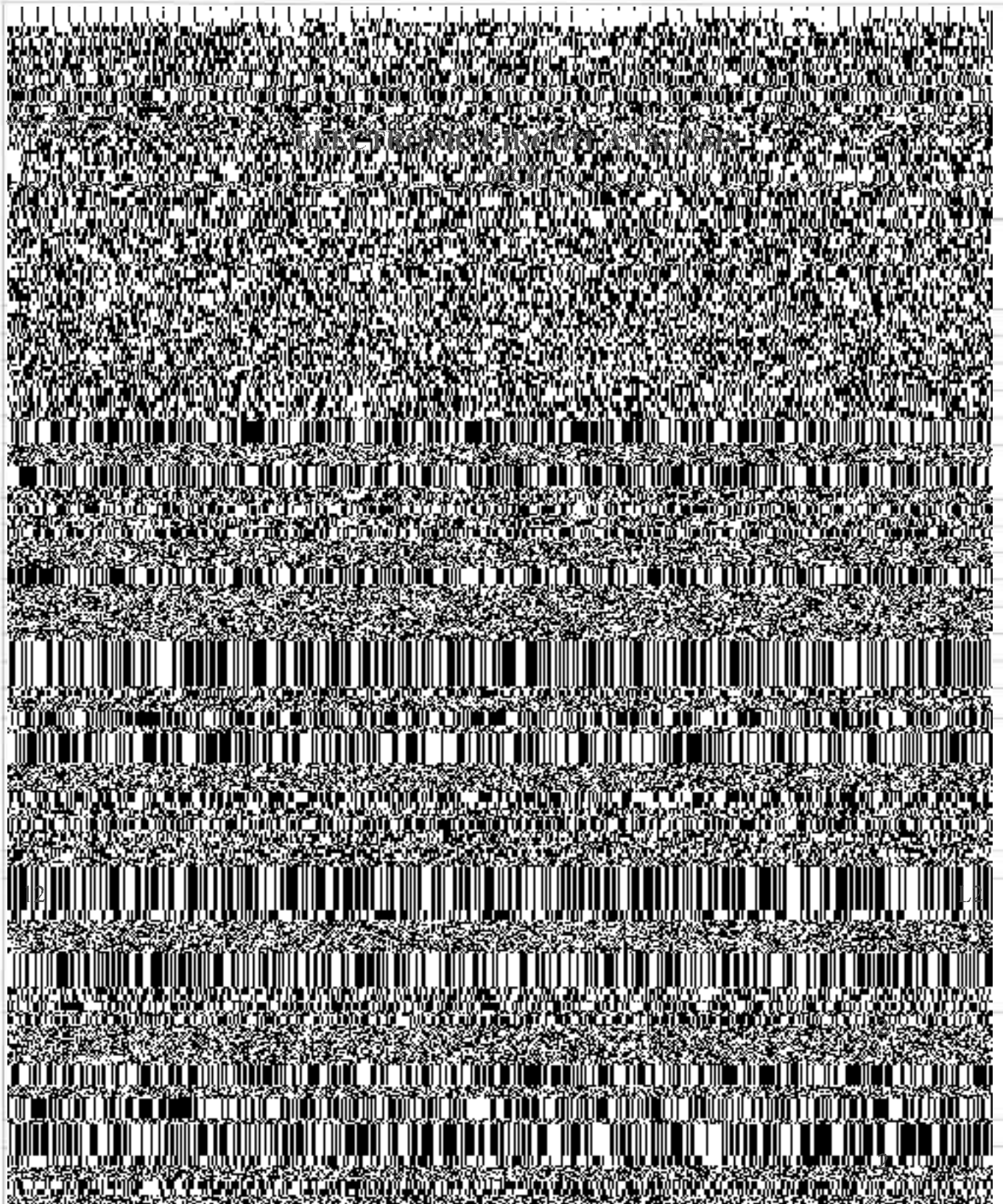




15	Draw the small signal high frequency equivalent circuit for the source follower and find its voltage gain input and output impedances?	10M	3	L2
	OR			
16	Draw the low frequency model of common gate FET amplifier and calculate its parameters	10M	3	L2
17	Give the equivalent circuits, and characteristics of ideal and practical amplifiers of the following types (i) Voltage amplifier, (ii) Current amplifiers, (iii) Trans-resistance amplifier, (iv) Trans-conductance amplifier	10M	4	L2
	OR			
18	Draw the circuit and explain the principle of operation of RC phase-shift oscillator circuit. What is the frequency range of generation of oscillations? Derive the expression for the frequency of oscillations	10M	4	L2
19	Derive the expressions for maximum. Theoretical efficiency 'for i)Transformer coupled ii)Series fed amplifier what are their advantages and disadvantages.	10M	5	L2
	OR			
20	A) How the frequency response of doubled tuned amplifier depends on degree of coupling between two tank circuits? B) Derive an expression for bandwidth of a capacitive coupled tuned amplifier in CE configuration.	6M 4M	5	L2