



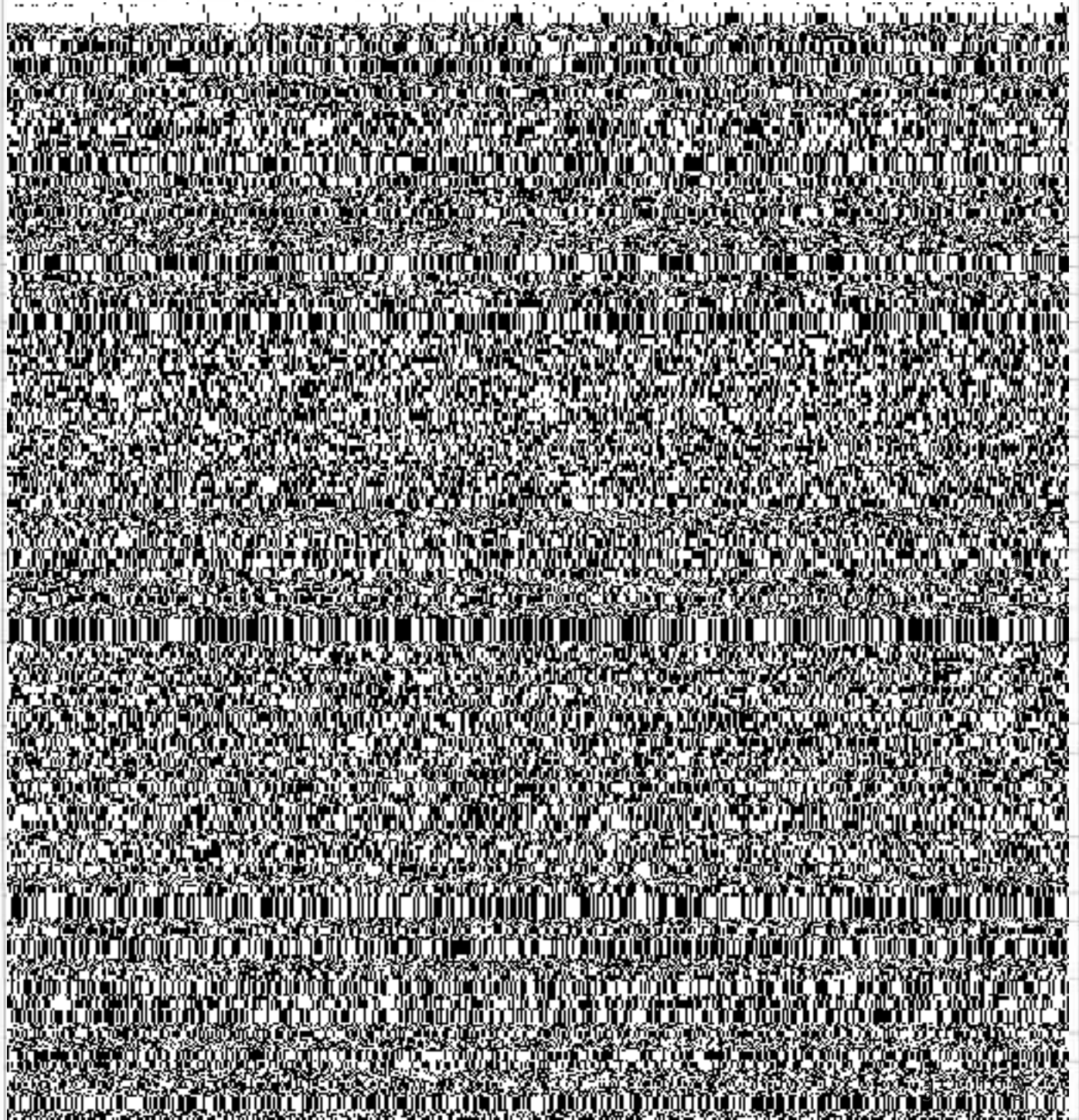
R22 Regulation

Subject code: 4E4DC

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

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	b. Indicating different switching times, explain how a transistor works as a Switch	5M		
8	a. Explain how the commutating capacitors will increase the speed of a fixed bias binary. b Classify Multivibrators & List the applications of multivibrators	5M 5M	4	2
	OR			
9	a. Derive an expression for the frequency of oscillations of an Astable multivibrator. b. Explain the operation of Schmitt trigger using transistors	5M 5M	4	2
10	a. What are the applications of sampling gates b. With the help of neat circuit diagram and truth table explain RTL AND gate	5M 5M	5	2
	OR			
11	a. Compare and Contrast Transistor logic families & CMOS logic families b. Design a TTL logic circuit for a 3-input NAND gate.	5M 5M	5	2