SET - 1

III B. Tech I Semester Supplementary Examinations, August - 2021 COMPUTER ARCHITECTURE AND ORGANIZATION

(Electronics and Communication Engineering)

Time	: 3 hours Max. 1	Marks: 70
	Note: 1. Question Paper consists of two parts (Part-A and Part- 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B	-В)
		14 Marks)
1. a) b) c) d) e) f)	What are the uses of system software? What is an assembly language? What is meant by branch instruction? What is PCI? Explain. What are the characteristics of semiconductor RAM memories? What is micro programmed control?	[2M] [2M] [2M] [3M] [3M] [2M]
PART -B (56 Marks)		
2. a)b)	Draw the CPU organization and explain the basic functional unof a computer. Explain, how the performance of modern computers is measured.	
3. a) b)	Discuss about the basic instruction types. Explain the role of Stacks and Queues in computer programm equation.	[7M] ing [7M]
4. a) b)	Explain Booth's algorithm. Apply Booth's algorithm to multiply two decimal numbers. With a neat flowchart, explain floating point division.	the [7M]
5. a) b)		[7M]
6. a) b)	Explain the differences between EPROM and EEPROM. What are the different mapping techniques used in caememories? Describe them.	[7M] che [7M]
,	Explain the basic organization of a micro programmed contunit and the generation of control signals using micro program. Define and explain the following: i) Micro operation; ii) Micro instruction.	
