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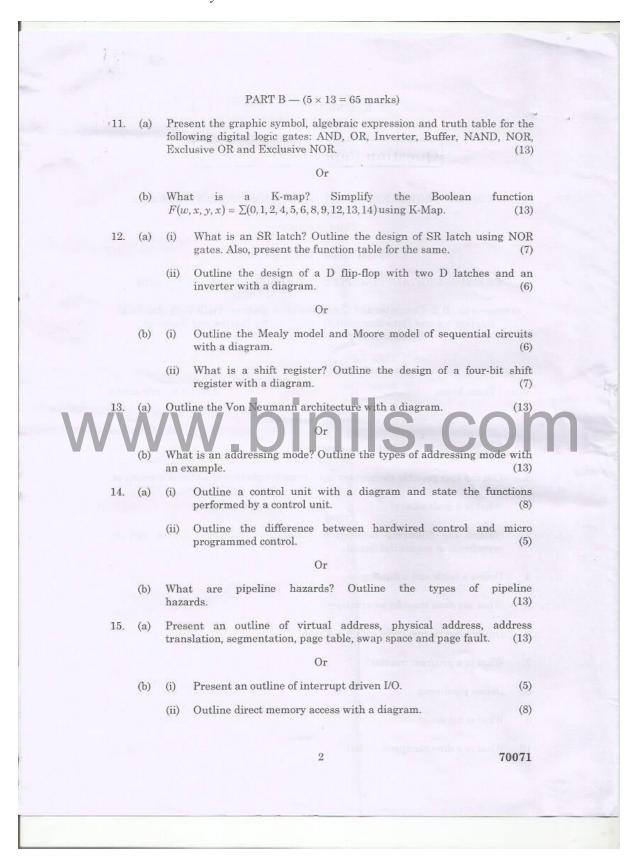
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	Reg. No. :
	Question Paper Code: 70071
	B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.
	Third Semester
	Computer Science and Engineering
	CS 3351 — DIGITAL PRINCIPLES AND COMPUTER ORGANIZATION
(0	Common to: B.E. Computer and Communication Engineering/B.Tech. Artificial Intelligence and Data Science/B.Tech. Computer Science and Business Systems/B.Tech. Information Technology)
	(Regulations 2021)
Tin	ne: Three hours Maximum: 100 marks
1.	
2.	List the four possible elementary operations simple binary addition consists of. What is a multiplexer? Outline the difference between a synchronous sequential circuit and an
2.	What is a multiplexer?
2.	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit.
 3. 4. 	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit. Define a latch and a flip-flop.
2. 3. 4. 5.	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit. Define a latch and a flip-flop. What are data transfer instructions?
 3. 4. 6. 	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit. Define a latch and a flip-flop. What are data transfer instructions? Outline instruction cycle with a diagram.
 2. 3. 4. 6. 7. 	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit. Define a latch and a flip-flop. What are data transfer instructions? Outline instruction cycle with a diagram. What is a program counter?
2. 3. 4. 5. 6. 7.	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit. Define a latch and a flip-flop. What are data transfer instructions? Outline instruction cycle with a diagram. What is a program counter? Define pipelining. What is hit time?
2. 3. 4. 5. 6. 7. 8.	What is a multiplexer? Outline the difference between a synchronous sequential circuit and an asynchronous sequential circuit. Define a latch and a flip-flop. What are data transfer instructions? Outline instruction cycle with a diagram. What is a program counter? Define pipelining. What is hit time?

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