

Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

AV- 2024-25

		A1: 2024	20
Class:	SE	Semester:	TIT
Course Code:	CSC304	Course Name:	DIGITAL LOGIC AND COMPUTER ARCHITECTURE

Name of Student:	0.0000000000000000000000000000000000000
Name of Student.	SHRUTI GAUCH ANDRA
Roll No. :	15
Assignment No.:	03
Title of Assignment:	Analyze the tenth table of digital components and Identify them, their functions in processor architecture.
Date of Submission:	66/04/24
Date of Correction:	06/09/24

Evaluation

Performance Indicator	Max. Marks	Marks Obtained
Completeness	5	5
Demonstrated Knowledge	3	3
Legibility	2	2
Total	- 10	10

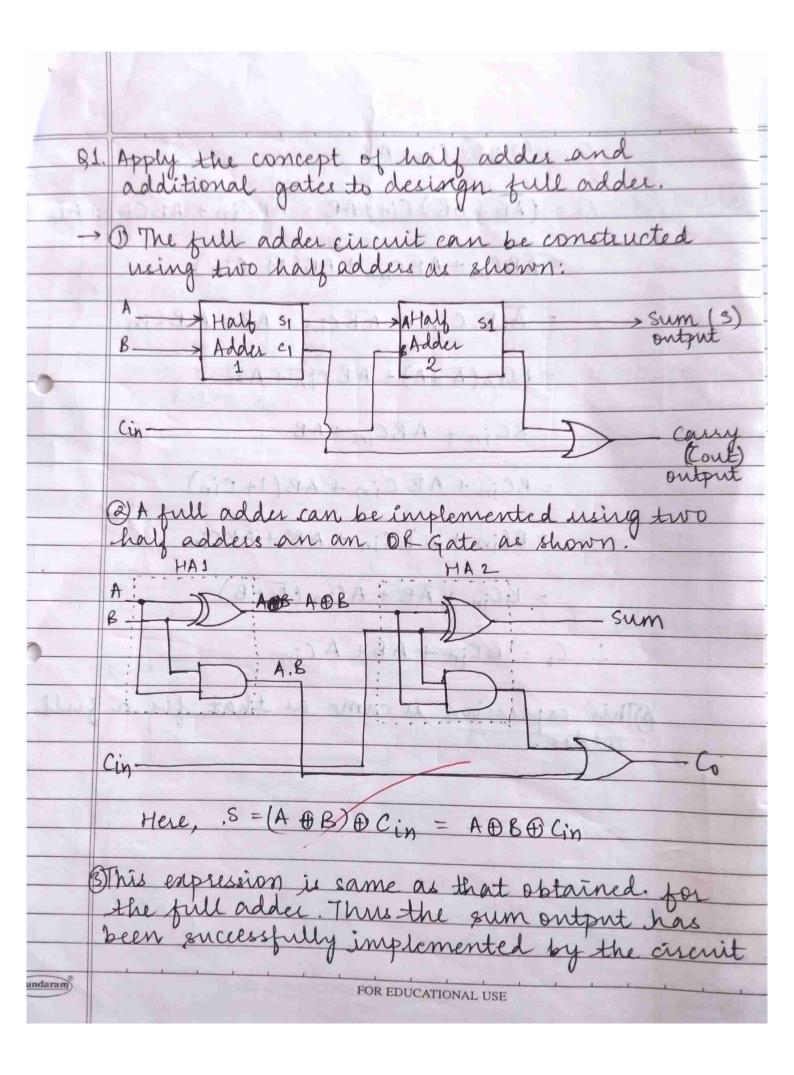
Performance Indicator	Exceed Expectations (EE)	Meet Expectations (ME)	Below Expectations (BE)
Completeness	5	3-4	1-2
Demonstrated Knowledge Legibility	3	2	
Legibility	2	11	0

Checked by

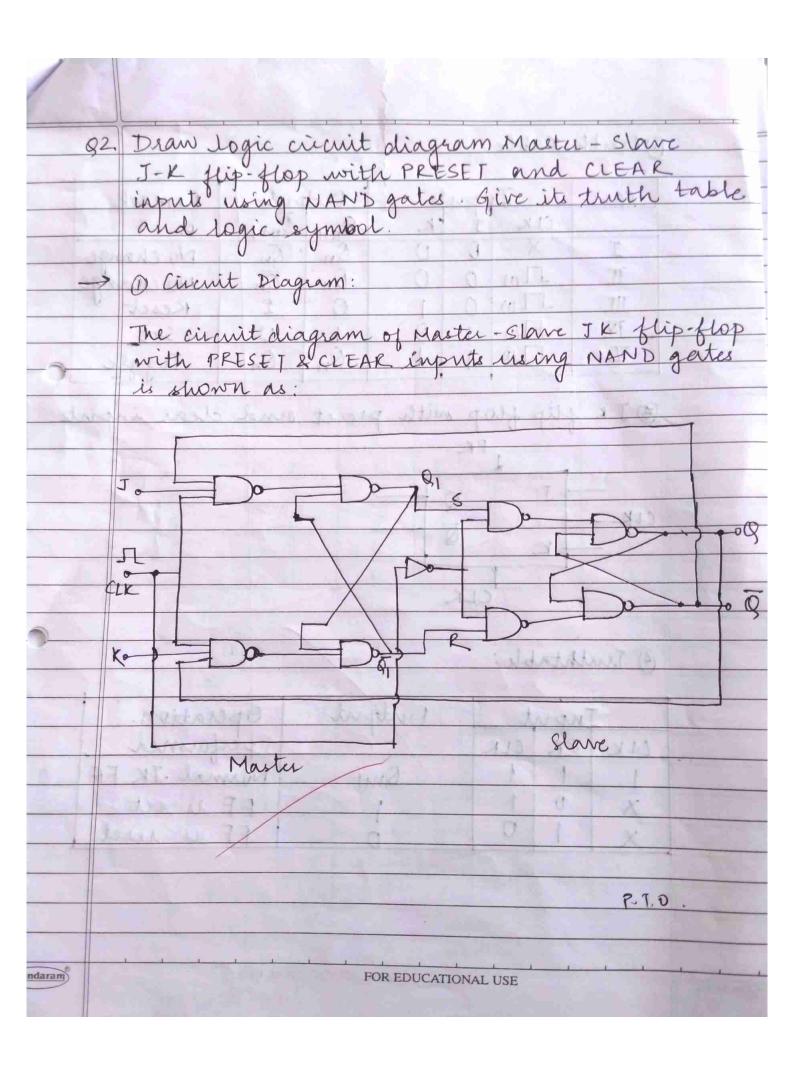
Name of Faculty : MS. KSHITIJA GHARAT

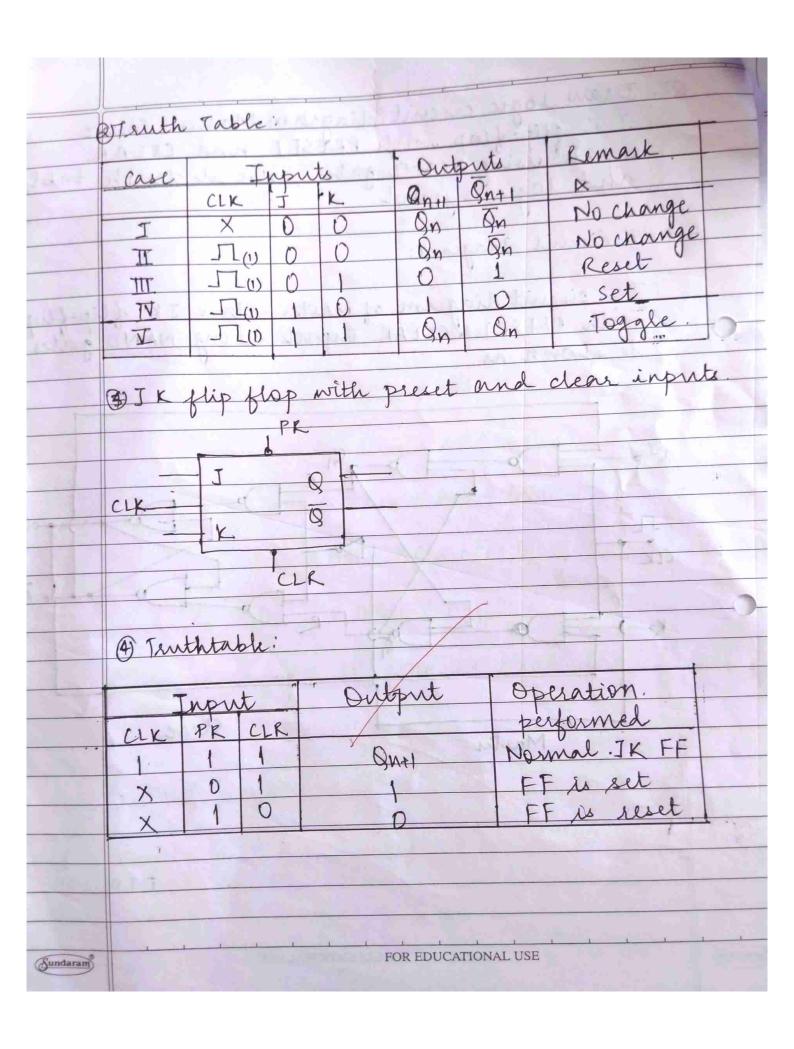
Signature : Rharat

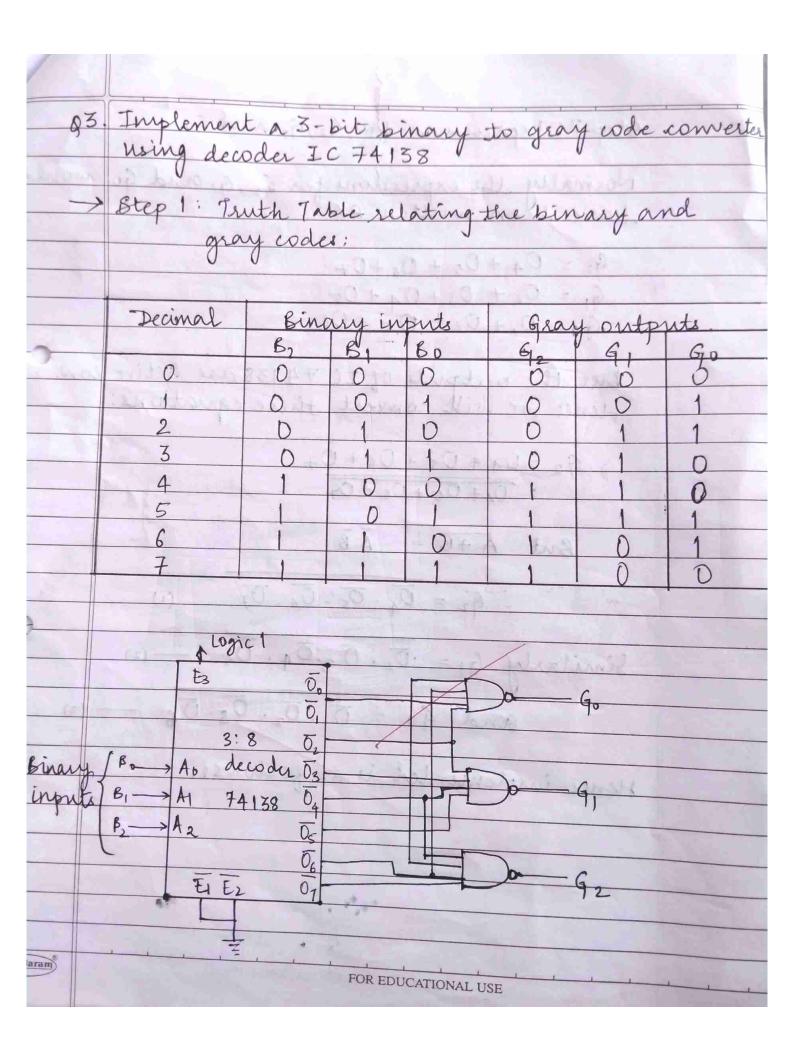
Date : 619 21



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4.5	= BCin + AB + ACin (B+B)
	:. Co = BCin + AB + ACin.
	This expression is same as that for a full order.
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AND VOTES	Step 2: Expressions par 92, 9, and 90!
	Normally the expressions for G2, G1, and G0 would have been written as:
	$G_2 = O_4 + O_5 + O_6 + O_7$
	$G_1 = O_2 + O_3 + O_4 + O_5$ $G_0 = O_1 + O_2 + O_5 + O_6$
1	But the outputs of IC 74138 are active low. Hence we will convert these equations:
0	92 = 04 + 05 + 06 + 07 = 04 + 05 + 06 + 07
Kd	But $A + B = \overline{A} \cdot \overline{B}$ \vdots $G_2 = \overline{O}_4 \cdot \overline{O}_5 \cdot \overline{O}_6 \cdot \overline{O}_7 = (1)$
	Similarly $G_1 = .\overline{D}_2 . \overline{D}_3 . \overline{D}_4 . \overline{D}_5 = (2)$
	and $q_0 = \overline{O_1}, \overline{O_2}, \overline{O_5}, \overline{O_6}$ (3)
	Hence implemented is as follows:
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