2023

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper: CC-5P

(Computer Organization Lab)

Full Marks: 30

The figures in the margin indicate full marks.

Marks Distribution

Experiment total			:	20
Theory + Problem design	:	05		
Implementation	:	10		
Output	:	03		
Discussion/Conclusion	:	02		
Viva voce		:		06
Lab notebook				04

SET - 1

Answer any one question.

1. Design 4-bit ALU capable of performing Addition and ORing operation. Use necessary logic gates.

Control	Operation	
0	Addition	
- 1	ORing	

20

- 2. Construct a 1-bit Carry Look Ahead (CLA) using logic gates. Take at least 4 sets of data.
- 3. Design a 1-digit BCD/Decimal adder using necessary logic gates. (Use IC7483/74283 if necessary). Take at least 4 sets of data.

20