



SOMAIYA
VIDYAVIHAR UNIVERSITY

Semester: July 2023-October 2023		
Maximum Marks: 30	Examination: In-Semester Examination	Duration :1hour 15min
Programme code:	Class: SY	Semester: III
Programme: B Tech Computer Engg		(SVU 2020)
Name of the Constituent College:	Name of the department:	
K. J. Somaiya College of Engineering	COMP	
Course Code: 116U01C303	Name of the Course: Computer Organization & Architecture	

Question No.		Max. Marks	
Q1 a)	Define buses and briefly explain the following functions namely <ul style="list-style-type: none">• Data Sharing• Addressing• Power• Timing	5M	CO1
Q1 b)	Define Computer Organization and Architecture. Differentiate between them with minimum 3 points.	5M	CO1
Q2	Solve using Restoring Division along with a neat flowchart for M=29 , Q=56 OR Solve using Booth's recoding showing all steps clearly for M=15 and Q=25.	10M	CO1
Q3	Draw and explain FLAG register for 8086. Explain status and Control function of these bits.	10M	CO2