



SOMAIYA
VIDYAVIHAR UNIVERSITY

Maximum Marks: 30	Semester: July 2023-October 2023	Duration : 1 hour 15 min
Programme code: 01	Examination: In-Semester Examination	Semester: III
Programme: B Tech Computer Engg	Class: SY	(SVU 2020)
Name of the Constituent College: K. J. Somaiya College of Engineering	Name of the department: 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
Q1 b)	Define Computer Organization and Architecture. Differentiate between them with minimum 3 points.	5M
Q2	Solve using Restoring Division along with a neat flowchart for M=29, Q=56	10M
	OR	
	Solve using Booth's recoding showing all steps clearly for M=15 and Q=25.	
Q3	Draw and explain FLAG register for 8086. Explain status and Control function of these bits.	10M