



SOMAIYA
VIDYAVIHAR UNIVERSITY

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| Semester: August 2022-December 2022 | | |
| Maximum Marks: 30 | Examination: In-Semester Examination | Duration :1 hr:15 min |
| Programme code: 116U01C303 | Class: SY | Semester: III |
| Programme: B Tech Computer Engineering | | (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 and Architecture | |

| Question No. | | Max · Mar ks | CO | Blooms taxonomy |
|---------------------|--|---------------------------------|-----------|------------------------|
| Q1 | Draw the basic and detail structure of Von Neumann model and state each component. OR Write a short note on SCSI bus. Support your answer with a neat diagram. Also comment on various SCSI bus versions. | 10M | CO1 | Understanding |
| Q2 | Is Booth's recording better than Booth's algorithm? Justify your answer. Hence solve using Booths recoding clearly stating each step M= 9 Q= -15 | 10M | CO1 | Evaluate |
| Q3 | Identify and justify addressing modes in the following examples 1. ADD [1234h],AX 2. MOV AX,[BX+05h] 3. ADD AX, #30h 4. ADD [BX],AX 5. MOV AX,CX | 10M | CO2 | Analyse |