



An AUTONOMOUS Institution

Question Paper Code:

IT304ES

ACE-R20

Semester End Examination II B. Tech- I Semester- MARCH-2022 COMPUTER ORGANIZATION AND MICROPROCESSOR (Information Technology)

Time: 3 Hours		- E										Max. Marks: 70		
	H. T. No			1.695										

Answer any 5 Questions out of 8 Questions from the following Marks Description Q.No 4 1. a) Explain the block diagram of a computer? Draw necessary diagrams and explain the control signal generation using 10 b) microprogrammed control unit? Draw the Architecture of 8086 microprocessor. Explain in detail the functional blocks 7M 2. a) of Bus Interface Unit and Execution Unit? 7M Explain addressing modes of the 8086 microprocessors? 9M Write an ALP to find sum of numbers in array using 8086 Assembly program? 3. a) 5M What are hardware and software interrupts of 8086? b) With a neat flowchart, explain Booth's multiplication algorithm? 7M 4. a) 7M How floating point number is represented in arithmetic operations. Explain in detail. 14M How input output processor is communicated with CPU. Explain in detail. 5 Explain hierarchy in memory organization? 4M 6. a) 10M Explain about Direct, Associative and set Associative memory? 7M Explain about Vector processing? 7. a) 7M Explain short notes on Array processors? b) 4M What are different operations in 8086 used for accessing stack? 8. a) 10M Explain about pipelining? b)