SE comp | sem IV | R-19 | SH 2023 | 19/12 | 2023 Paper / Subject Code: 40525 / Microprocessors

Duration: 3hrs N. B: (1) Question No 1 is Compulsors (1) Question No 1 is Compulsors(2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly Attempt any FOUR 1 Explain the Floating point Pipeline of Pentium Processor. What is the advantage of Memory Banking in 8086 Processor? Justify with example. b Character in Write an assembly language program for searching Draw and explain write operation Timing diagrams. [10] The British d a Draw and explain write operation Timing diagram of 8086 Processor in Maximum mode. Draw and Explain the Master Slave Mode of 8259 Processor with Suitable example. Consider Slave 8259 connected to IRO and IR4 of master. [10] Design 8086 microprocessor-based on following Specifications: MP 8086 working at 10MHz minimum mode. 64 KB ROM using 16KB Devices 3. 32KB RAM using 16KB chips Explain Mode 2 of 8255 with a neat block diagram. Show the CWR initialization. [10] xplain the 8257 DMA controller with the help of neat diagram and explain its Control [10] Register Format. Write an ALP for 8086 to arrange 10 numbers in ascending order. [10] Explain the segment descriptor of 80386 processor. [10] Explain the EFLAG REGISTER of 80386 Processor. [10] [10] Explain the interrupt structure of 8086 processor. Explain the Branch Prediction Mechanism of Pentium Processor. [10]

38704

Page 1 of 1