Hall Ticket Number :						R-14	
Code: 4G357						K-14	

III B.Tech. I Semester Supplementary Examinations February 2021

Microprocessors & Interfacing

(Computer Science and Engineering) Max. Marks: 70 Time: 3 Hours Answer all five units by choosing one question from each unit ($5 \times 14 = 70$ Marks) Blooms Marks CO Level UNIT-I 1. a) With the help of timing diagrams ANALYZE the minimum mode of 8086 microprocessor. 8M K4 b) Find out Physical address for the following: CS = 4000H. IP= ABC4H ii) DS = 5000H, SI = 2000HSS = 90000H, SP=9000H **K**3 6M OR Draw the internal block diagram of 8086 microprocessor and ANALYZE the both units 6M K4 b) i)Explain the ASSEMBLY directives ORG, DB with examples ii) Explain the INSTRUCTIONS DAA, ADD with examples **K**3 8M UNIT-II Differentiate I/O interfacing methods of 8086 microprocessor. 3. a) 6M K2 b) Explain stepper Motor function and Write a program for stepper motor forward and backward rotation. K2 M8 OR 4. Explain the Operational Modes of 8255 along with Block Diagram. 14M K2 **UNIT-III** Distinguish between programmed I/O and Interrupt driven I/O. 6M K2 With neat sketch explain the architecture of 8259 PIC K2 8M OR 6. Explain in detail about the Architecture of 8257 with neat diagram. 14M K2 **UNIT-IV** 7. Analyze 8251 USART architecture and interfacing with 8086. 14M **K**3 OR 8. Analyze 8253 mode of operations and it's interfacing with 8086. 14M **K**3 UNIT-V List the salient features of Pentium and Pentium pro processors. 14M K2 9. OR 10. Explain Paging operation in 80386. 14M K2 ****