

[Time:2.30 Hrs]		[Marks:75]
Please check whether you have got the right question paper.		
N.B:	1. All question are compulsory. 2. Figures to the right indicate full marks. 3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.	

Q.1	Attempt <u>any three</u> of the following: a. Explain a microcomputer based system & its interfacing along with I/O Devices. b. Give history from Large computers to Single chip Microcontroller. c. Draw Architecture of Microprocessor. d. Give importance of Microprocessor based system. Give its Application. e. Explain interfacing of 8155memory segment. f. Write note on Logic devices & Interfacing.	15
Q.2	Attempt <u>any three</u> of the following: a. Explain interfacing concepts in detail. b. Give various Data transfer Operations. c. Explain Logic Operations in detail. d. Write note on Writing & Assembling Program. e. Give examples of Arithmetic Instructions f. Explain Testing & Troubleshooting.	15
Q.3	Attempt <u>any three</u> of the following: a. Write note on Looping with examples. b. Explain the various Rotate Instructions for 8085 Microprocessor. c. List out Arithmetic instructions related to Memory. d. Give Algorithm / Illustrate of Modulo 10 (0 to 9) program. e. Give concept of Stack & Subroutine. f. Write an assembly language program for 8085 microprocessor to add 2 numbers (8-Bit).	15
Q.4	Attempt <u>any three</u> of the following: a. How you can convert of Binary to BCD. b. Give importance of Microprocessor based Software Development system. c. Draw flowchart of BCD subtraction. d. Give any two instructions related to the stack? Explain with Example e. Give details of 8085-vectored Interrupts.	15

	f. Write note on Assembler & Cross Assembler.	
Q.5	<p>Attempt <u>any three</u> of the following:</p> <p>a. Explain the internal structure of the Pentium pro Microprocessor.</p> <p>b. Write note on Memory Management.</p> <p>c. Explain CUID instruction in Pentium II.</p> <p>d. Compare Core i3, i5, and i7 processors.</p> <p>e. Draw Architecture of SUN SPARC Architecture?</p> <p>f. What are the various data types in the SUN SPARC Architecture?</p>	15