

[Time:2.30 Hrs]		[ Marks:75 ]
Please check whether you have got the right question paper.		
N.B:	1. All questions 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.	
<b>Q1.</b>	<b>Attempt <u>any three</u> of the following.</b> a) State the features of 8085. b) Draw and explain pin diagram of 8085. c) Write note on 1. Chip select 2. Address Latch Enable. d) Define RAM. Explain SRAM e) Draw and explain flag registers of 8085 microprocessor. f) Write note on 1. ALU 2. Timing and control unit	<b>15</b>
<b>Q2.</b>	<b>Attempt <u>any three</u> of the following.</b> a) Draw and explain flag registers of 8085 microprocessor. b) Explain architecture of Intel 8085. c) Explain register group. d) Explain the following instructions in details. e) 1. MOV M, Rs 2. LDA 16 bit address f) Explain de multiplexing of address/ data bus of 8085. g) Explain data transfer group and logical group with proper examples.	<b>15</b>
<b>Q3.</b>	<b>Attempt <u>any three</u> of the following.</b> a) Give details 1. MOV DPTR, # 3000H 2. SUB D. b) Define addressing mode. Explain register and indirect addressing mode with example. c) Explain Stack Pointer and program counter d) Explain arithmetic and branching group with examples. e) Differentiate RISC and CISC architecture. f) Explain One byte and Two-byte instructions with example.	<b>15</b>
<b>Q4.</b>	<b>Attempt <u>any three</u> of the following</b> a) Write note on interrupts of 8085. b) Write notes on compiler and cross compiler. c) Write note on simplex and duplex transmission. d) Write an algorithm, flowchart and program to add content of 20H and 45H and store result in 60H. e) What is software-Controlled Serial Transmission? f) Write note on error checking techniques.	<b>15</b>
<b>Q5.</b>	<b>Attempt <u>any three</u> of the following</b> a) What are the specialties of Pentium processors. b) List Pentium 4 processor features. c) List SPARC registers. d) Draw and explain pin diagram 8155. e) write notes on control registers. f) Write 8155 features.	<b>15</b>