G217A23MA

followed by EPROM

Seat Number: - ____

Marks: - 75

Duration: 2 1/2 Hrs		iveal Rs 15
Note:-		
1) All Questions are compul	sory	
2) Figures to the right indicate	ate maximum marks.	
		(15M)
Q1) Attempt any3		
a) Write a short note on flag	register of 8085 up	Co1 (R)
1) Commore high level langu	lage and low level language	Col (R)
c) Explain the function of ge	eneral purpose register and instruction register	Col (U)
d) Explain stack structure ar	nd operation	Col (U)
e) Define the term		Co1 (R)
OpCode 2) Operand Explain the instruction Plant	d 3) Instruction 4) Instruction set 5) BUS USH Rp, POP Rp	(01(R)
	B	(15M)
Q2) Attempt any 3		Co2 (U)
a) Explain the interfacing o	f 8155 with 8085	Co3 (A)
b) WAP to perform addition	nal of two 8 bit number using 8085	Co2 (R)
c) List different type of add	ressing modes used 8085 up, explain any 3	Co2 (U)
d) Write short notes on Rota	mber in HL and DE register pair and store result in	
e) Add two 4 digit BCD nu	mber in HL and DE register pair and store results	Co3 (U)
and 2301 H ignore carry	after 10 dit	Co2 (U)
f) List the feature of 8155	¥	(1 5 N A)
Q3) Attempt any 3		$\sim (15M)$
	se computer system and embedded system	Co3 (R)
a) Compare General purpos	ed microcontroller core in details	Co3 (U)
b) Explain various embedd	ode of 8051 microcontroller	Co3 (U)
c) Discuss power down inc	rogram for 8051 to count OOH to FFH on part P2	Co3 (R)
d) Write an embedded C pi	ogram for 6051 to count	Co3 (U)
e) Explain SFR of TMDD f) Explain Memory organi	zation structure of 8051	Co3 (R)
agest the same of	Zation stratus	(15M)
Q4) Attempt any 3	u c II - i ification	Co4 (R)
a) Design 8051 based mici	rocontroller with following specification	1
i) 8051 CPU Work	king at 12 MHz iii) 32KB program memory Iv) 8255 PP1	
ii) 16KB data mem	,	Co4 (R)
b) What is IDE; Explain d	ifferent tool of IDE	Co4 (R)
c) Compare, black box and	d white box testing	Co4 (R)
d) Explain classic embedd	ed system development life cycle model	Co4 (R)
e) Describe PSW for 8051	microcontroller	Co2 (R)
f) Explain flag register of	8085.	(15NA)
Q5) Attempt any 3		(15M)
a) Explain the following i	nstructions 1) ADD R 2) DCX R _P 3)XCHG 4) MO	V M,R Co2 (U)
a) Explain the following fb) Raw architecture of 80	85µp	
y E lair logical instruct	tions of of 8085µp	Co2 (U)
d) Write a program to shi	ft 8 bit data 4 bit right. Assume data in register C	Co2 (U)
		Co2 (U)
f) Interface 4kb of EPRO	mp instruction M with starting address from 0000H and 2kb of RA	Co3 (R)
followed by EPROM		CO3 (IX)