acoef

01010110

C.

A

[B] Name: i 1759 ID: b1*0*902011

1. (Multiple Choices) For MCS-51, what are interrupt vectors*?* ae. b (a) RESET (b) Timero (c) CAN (d) PWM (e) INT1 (f) SPI

2. (Multiple Choices) Which addressing modes are included in the following instructions? 31,@t.

(a) direct (b) indexed (c) biť (d) immediate (e) register (f) indirect

MOVA, RO direct. MOV 30H, A reg. SETB 21H.1 bịt.

MOVA*, @*RO indirect. 3. (Multiple Choices) For MCS-51, what are special function registers*?* def (a) PWM (b) ADC (c) 12C (d) PC (e) SP (H) DPTR de.t.

4. List 3 characteristics/advantages of RISC.

fr 16 => lobit li de clock in te pipeline.

-3 fer

sfr= Intl.

8 bit 2 Register. 5. Show the value of A after executing the following instructions. CAH. MOVA, #65H 0110 0101

-10

SWAPA

00*0*1010 6. What are the content of SP and the memory addresses 22H, 23H, 32H and 33H

after running the following instructions?

MOV *2*2H, #23H MOV 23H, *#*22H MOV SP*, #7*2H

747= #2311 PUSH 23H

$*322*

15H=#24 324 =B6211 PUSH 22H #23

(งง | 21 |

324 = #224 334 -8237 PUSH 23H 22

POP 32H

334=234

SP=134

sp=11H. POP 33H

324 = 43341 7. Fill out (a), (b), (c) and (d) to complement A 840 times.

334 = 43211

acto

MOV A*, #*55H MOV R1, (a) to zo

One ok - test

a NEXT: MOV R2, (b) t. *4*2.

looolool register

100 1000 C=AGAIN.

AGAIN: CPL A

ta pipeline.

1 00011011 d= NEXT.

DJNZ R2,(c) AGA*IN*

Isht.

Y21

*Acn/* abe.

pel. DJNZ R1,(d) NEXT 8. Show the status of CY, AC and P In PSW register after the addition of 9BH and CY: 65H.

8.9 475 9BHF 10011011 7 137443 y que 65H= oll001ol.

**องอ 9 ออออ**

TH1012

224

#23H.

*2*2H=#2341 2311 = #224.

234 - #224

13H = $1224

-8+4)

SPEN24 22+1 = #234

12

4724

sp=#724

234 = 4224.

324 24.

334 = #234 :

424 = £3221 43 H = 4331

b=37

def.

cbfd

Paxo