:: ASSIGNMENT # 6 ::

ID: 11533

Name: Ashir Ali Khan

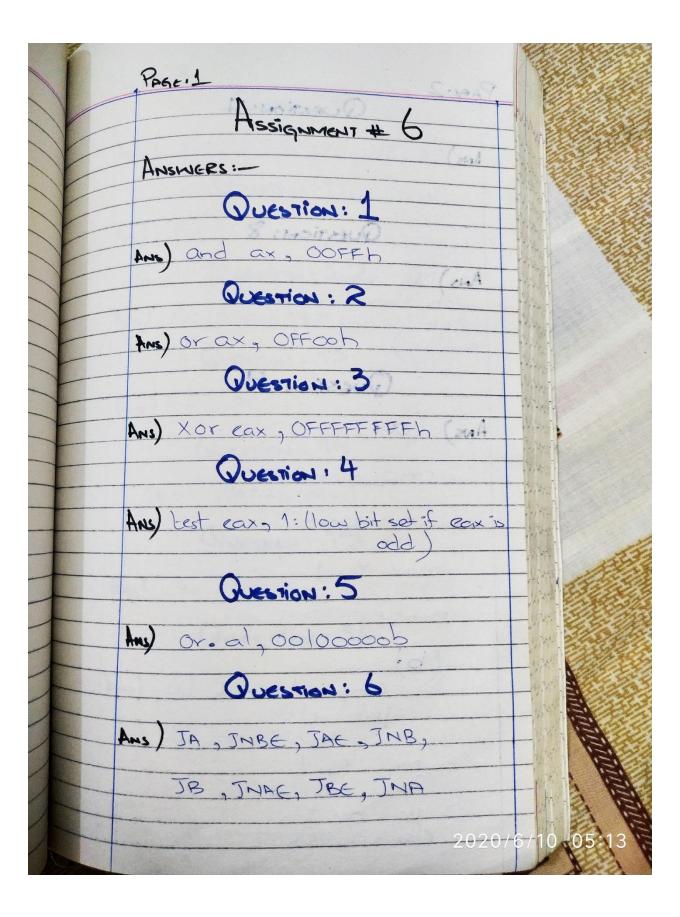
Subject: Microprocessor and

Assembly Language

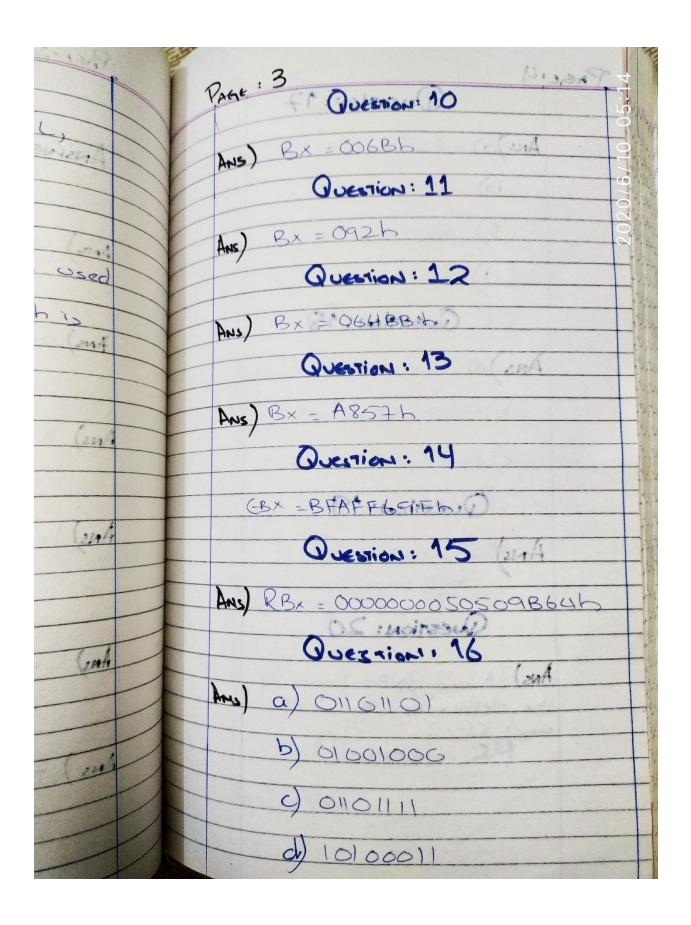
Teacher: Sir Muhammad Amin



Iqra National University



PAGE 2 QUESTION: 7	Paint
 LUE JIG JNCE, JGE, JNL, JL	A-s)
JUGE, JLE JOHN: 8	Ans)
A. No because the 19 is used	
positive)	Ans)
Ans) (a:)	Ans
onp ebypess	
mov X, 1	Ans
Tex =	
(b) Compredersex Intelse	Anu)
TOV X, I	
else : mov x, 2	



Page	QUESTION: 17	T	Parge
	Ans)a) 85 h		Pass
	G BFb		
	d) Action: 18		
	Ans)a) (F=0; ==0; SF=		Aus
	b) CF=0 , ZF=0, SF=0 c) CF=1, ZF=0, SF=1		
	Question: 19		+4
	Ans) JECX Z		Aus
	And TA TA		
	Ans) IA and JNBE jump to the destination if ZF=0 and CF=0		
			Ann

	Page: 5 Question: 21	
	(ms); 7FFh = 32767d	
	; 8000h = 32768d ; Ursignal Comp, and	
	Oversion: 22	
0	Au) : 7FFFh = + 32767d	
1	; 8000h = -32768d ; unsigned Comp, and	
	the jump will not be taken! Question: 23	
	hus) may ax, 7FFFh	
10	xorah sal	
	Question: 24	
	Ans) Yes 2020/6/10-05-1	
	2020/0210-03	

Page:6 Question: 25	Proje: 7
Ans) Yes (the assigned representation) 4. 42 is compared to 26).	Ans) Cr
QUESTION.	
Ax) and al, 00001111 b	
Question: 27	Ans) ar
Aux) · data	1
menval DWORD?	
• Code	Ans)(a)
moral, BYTE PTR memval	JBE
xoral, Byte PTE menugl+1	CMF
Yor al, Byte Pre menual + 2	JB
xoral, Byre PTR menual + 3	Mo
Question: 28	<u>2</u> m
Ans) Comp dx, cx	U:
ibe y	U
And the state of t	20/6/10-05:14

Page: 7 Question: 29 Ans) cmp.ax, cx Question: 30 hs) and al, 111111 00b QUECTION: 31 Ans)(a) CMP EBX, ECX JBE 11; of (above tecx) CMP (Bx, val 1 Con JBE LI Mov x , 1 JMP 12 L1: movx, 2: else, x=2 12: 2020/6/10 05

2 CCX	Page: 9
Page: 8 CMP CBX; CCX	TOP:
TBELL	
TRE L1	
JMP 13; both true, go to 12.	II:
JMP COX, CAX	
0 / ed x C = egx 1.0	L2:
to Co.	je
12: MOV X , 1)
Querion: 32	5
As) INCLUDE 32:inc	14:
• data	S
NOWORD 10 ADNORD 9	Next
BOWORD 8	
o code main Plac	
	e
mov eax, N mov ebx, A mov ecx, B	

Page: 9 TOP: CE mainage Comp cax ; 0 ibe Next amp eax, 3
ine L1
imp L4 cmp eax, ebx jb 13 ja 12 201 22000 13: sub eax, 2 14: Next Invoke Exit process, O man andp end main 2020/6/10 05:15

Page 10 Querion: 33	1	Page: 11
his Include Inine 32. inc		exit
N=10		main
data:- DWORD NDUP(?)		Filling
jonoeo?		4:
KINOED?		
Code. main Peo (dec
Call edrser		sub of
mov f, -10		Xchq,e
mov ESI, OFFSET arra	4	Call Ran
mov ECX, N		rege
Call Filling An Array		sub eax
mov k, 1000		Call
mor Gex, N	20	20/6/10 05:15
call Filling An Array		2070710 03.13

Page: 11 exit main ENDP Filling An Array PROC dec ebx sub obx, ecix, create range from 0 to x1 Xchq, ebx, eax; randoms work with Call Rardon Range; generate random with range 0 to N reg clox; change sign of elox sub eax, ebx ; sub from eax to define range Call (r)f Call wait mag 2020/6/10 05:15

	Pane: 12	PAGE:
	novie	
#-//	add esis 4	-
	1002 12	
	pop esi	
	popecx	~
	ret	C
	Filling An Array ENIDP	C
	(ND rain	Ce
	Question: 34	-
	Ans Include Invine 32. inc	7
	N=10	-
	data: array SDHORD N DUP (-10,-8,	
	0-6,-4,-2,-1,1,3,5,7)	
	", DWORD?	
100 M		
The second second	K DWOED ?	
	Code:	
	main Proc 2020	6/10 05:15

Page: 13 HA . AAA call chriser movjoo mov K, 10 mor ESI, OFFSET Orray mor Ecx, N Call Summing Array Generals In Range cal Write Int cell crf mov j, -10 mov k, 0 mov ESI, Offset array mov (-(x, N) Call surring Array Elements InRange Call write Int cell crf Call wait msq exit 2020/6/10 05:15 PAGE: 14 Page man ENDP Somering Array Gerneots on Range PRox push ecx mox eax, 6 11: mov ebx, [esi] Comp clox of jge tre 1 Imp next 100 brue 1: comp ebx sk je true 2 jorp next 110 100 true 2: 11 add car, ebx next add esi, 4 Co 2020/6/10 05:15

Page: 15
Pop esi Per. 16 Pop ecx Summing Array Elements In Range ENDP END main. QUESTION: 35 Ans) Include Invine 32 inc · data byte 1 Byte IIIIIIOb, 1101110b, 10001116,11001006,110010106, 1100/0106,1100/0106,1100. byte 2 BYTE 1111110b, 11011111b, 10001110b, 1110100b, 11001100b, 110010116, 110010106, 110010106, 1100 Code: main PROL 2020/6/10 05:

-1	Page: 16 movesi, offset byte 1		Page: 1
=======================================	mover size of byte 2		
	Call Mrite Int		
	movesi, offset byte 2		
	call write Int		
	exit main ENDP pfcheck Peoc		
	; eax PF=1 TRUE PF=0 False		
	es), ecx		
	push ecx		
	mey al, 0		
	mox al, lesi]		
	L1;		
		2020/6/	10-05:15

Top 1	Page: 17	
-	mor blacesi	
	Loop Chambach	
-	JP IPE1	
	mov reax, 0 jmp Land LPF 1:	
-		
	mov eax, 1	
-	LCNO: POPILIXION	- 1/2 / 1/2
	pop esi	
200	rec (21)	
	PF Check ENDP	
	GND main-	
	Oversion:	
	C 'MOITESUC	
	- Cart	
-	1 constructed	
	Total States	
		-1/1-2
-		
	-972701614	0.05.15
-	2020/6/1	0 05:15