Camlin Page

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CLASS: B TECH 3 RD YEAR,

COMPUTER ENGINEERING

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Ans 2. The physical address of memory location is located with In order to access memory location, we can't pass a 200 bit address directly due to address line limitation. The 16 bit address with respect to the segment is called Hence, using the base address, we calculate the physical address of the memory.
This Base Address for Data segment is stored in DS and Code segment is stored in CS: Hence, Physical Address = Prose Address + Offset. (MP:- CMP (Rog Memory) [Rog, Memory Immediate]
Operand 2 - Operand 2 Sets zero if equal

MP AL,BL -> AL-BL -> No carry if AL>BL

Carry if AL < BL LAHF: Loads Att from 8 low bits of flag register.

Att = Plag register. XCHG: Exchanges values of two operands. BX CAX

garan and a second a second and			
	CCA: Load Effective Address		
	REG = Adhess of memory.		A
	Mov BX, 35H	1	
	May DI 12H		
	Mov SI, [BX+DI] ; SI = 4711	1	***
1	Pusin: Stores 16 bit value in the stack.		
	SP= SP-2		
	SS: [SP] = Operand		and hands out the
	Mov AX, 1234H		
15	PUSH DX		and the second second
	POP DX ; DX=1234H		
	RET		
20	DS: Load memory double word into word register and DS.  RECh = First word		
196	DS = Second Abord		
To the same			A
	LDS AX, m		
25	RET		
	m DLJ 1234M		
	DW 5678H.		
	; AX=1234H DS=5678H.		
30			
			-
			-
			-
13 Mary Contract			

	Doit 1
Ans 92	An assembler directive is a statement to give direction to the assembly process.
	the assembler to perform task of the assembly process.
5	ASSUME: Tells the assembly what some how has all as A
	ASSUME: Tells the assembler what names have been chosen for Code, Data Entra and Stack segments.
	XA ROY G
	DW:- Used to assign 16 bit clada word to a variable WORD DW 2346H  DQ: Define 4 word length word to a variable.  BIG DQ 243598740192A92BH
	1000 DW 2346H
10	DIC An 2125 Took alord to a variable.
	BIG DG 24557874019217421874
	PROC: Used by identify the start of the monday
	PROC: Used to identify the start of the procedure.  The term FAR or NEAR is used to define the
15	type of procedure.
	NEAR: Resides in some code segment
	type of procedure.  NEAR: Resides in some code segment  FAR: Resides in different Code segment.
E	NOP:- Used to end a procedure.
20	
Ans 5,	the second of th
1) M	OV (1.344) -> long 16/2 /1
3) Ma	ov By [4170 x] - Direct Alling
3) <sub>25</sub> M	OV CL,344 -> Immediate Addressing  SV BX, [41724] -> Direct Addressing  OV DS, AS -> Register Addressing  OV AX, [SI+BX+OV] -> Base Index with Displacement addressing
41 M	OV AX, [SI+BX+OY] -> Race lodgy 1,14 Did
7	Displacement address
30	They want on the first the same of the sam
	American Ava Virginia India
	A. Comment of Views
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		Commence of the Commence of th
Ans 6.	Criven,	
	AX = 88 H	
	BX = 64 H	
5	SP = 2000H.	The state of the s
1)	PUSH AX	
	SES SP= IFFDH	
	DAX = 854	
10	BX = 64H	
1,")	POPBX.	
	SP=2000H	
	AX = 85H	
	BX = 85H	
15		
	the same of the sa	And a real real real real real real real re
Ans 7.	AX = ACH = 1010 1100 to	And the second s
	C/=  .	And the second s
	0-1 401	
	RUC MA, Z , MA = 1011 0010	
:1 0		
	PCL AX, 2 ; AX = 10 14 1011 0010 H	
		4
	The state of the s	The second secon
	- Carlotte Committee Commi	
Ang 8 325		
DI	V:- Unigned division When operand is a byte:-  AL = AX/operand  AH = Remainder	
	11ha and 1 the	The state of the s
	When operand is a byte:	
	ML = AX / Operand	
	HM=Remainder	Address of the control of the first of the f
30	When operand is a handi-	Principal and an appropriate control of control of the state of the st
	AX = BYOV AX 1	The second secon
	When operand is a word:-  AX = BI (DX AX) / Operand  AT DY - P	The same of the sa
	DX = Remainder	
		- American
		The second secon
NY N		

Control of the Contro		Camlin Page Date 1 1
	IDIV: Signed Division  When operand is a bufe:  AL = AX/Operand  AH = Remainder (modulus)  When operand is a word:  AX = (OXAX) / Operand  DX = Remainder (modulus)	
	DX = Remainder (modulus)	
	15	
2	5	
30		