

1. What are the five different instruction formats available in IBM 360. Explain each one of them.
2. How pass1 & pass2 of the IBM 360 assembler are different. Explain with Flowchart.
3. Draw the Diagram for General Machine Structure of Intel Architecture IA-32.
4. Convert the following program in to machine language. Make all the tables.

The numbers in brackets at the end of the line are instruction mnemonics in Hexadecimal.

The Format should be like		Address	Instruction	M/c Instruction
For example the first line will be		484	BALR 2,0	0000010100100000
	SAE	START	484	
ARCHON	EQU	1		
DEPUTY	EQU	2		
TREAS	EQU	3		
	BALR	2,0		(05)
	USING	*+ARCHON-DEPUTY-TREAS,TREAS		
	LM	1,6,POINT		(98)
	USING	BETA, ARCHON, DEPUTY		
	EXTRN	BACK		
	ENTRY	BEACON		
BEACON	CR	DEPUTY,ARCHON		(19)
	BNH	POINT+SAE-BEACON		(47)
	LA	7, =A(BACK)		(41)
	CLI	HOLE, X'90'		(95)
	BR	6		(07)
	DC	H'64',X'40',B'1000000',C' '		
	DROP	DEPUTY		
	DC	15X'0',6F'180'		
BETA	MVC	POINT+20(4), =H'43'	//LENGTH 6	(D2)
	MVC	POINT+16, =H'43'	//LENGTH 6	(D2)
STOMP	EQU	5		
	DROP	ARCHON		
	L	9, =A(BEACON)		(58)
	NR	9,TREAS		(14)
	ST	9, =F'482'		(50)
	B	POINT+24		(47)
	LTORG			
HOLE	DS	0D		
POINT	DC	CL4'WIN'		
	DC	(STOMP)A(BETA),V(FOOTBL)		
	CLC	POINT-4, =F'482'	//LENGTH 6	(D5)
	LA	1,1		(41)
	CVB	2,10(DEPUTY*TREAS)		(4F)
	STC	3,POINT(TREAS*TREAS)		(42)
	BR	14		(07)
	END			