SAM-III(R) - Comp. 7/6/12 mpuler organization & Architecture 44: 1st half,12-SHILPA(b)

				(3 Hours)	[Total Marks: 100	
1.B.		(2)	Question No. 1 is compuls Attempt any four question Assume suitable data wh	ns from remaining <b>six</b> que	stions.	
1.	(a)	M M	onsider a cache (M 1) and mer 1:16 K words, 50 ns acce 2:1 M words, 400 ns acce sume 8 words cache blocks a (i) Show the mapping be	ss time ss time nd set size of 256 words with etween M 1 and M 2.	n set associative mapping.	10
	(b)		(ii) Calculate the effective hat do you mean by Fetch c knowledgement cycle? Ex			10
2.	(a)		ultiply (- 7) with (3) by usinultiplication.	ng Booth's multiplication	. Give the flow table of	10
	(b)	W	hat is microoperation? Cocrooperations.	Give suitable examples	of some four types of	10
3.	(a)		nat do you mean by initializat plain with suitable block di		v DMA controller works?	10
	(b)		nat is virtual memory? Exysical address.	xplain how virtual addres	ss is mapped to actual	10
4.	(a)		plain with an example, how addressing modes.	effective address <del>i</del> s calc	ulated in different types	10
	(b)	For	rmulate a four segment instru be performed in each segm		ter. Specify the operation	10
5.	` '		plain any two methods of h plain the von newmann arc		diagram.	10 10
6.	, ,	car	th neat flow chart, explain the ried out in a computer.			10
	(b)	Ext	plain the Flynn's classificat	ion of parallel processing	•	10
7	Wri		short notes on (an <b>y four</b> ) :- PCI bus architecture	-		20

(b) Systolic arrays

Con. 4795-12.

- (c) Comparison of RISC and CISC
- (d) IEEE 754 format
- (e) Programmed I/O.