	Pap	per / Subject C	ode: 50924 / Digita	I Louis & C		
E		Semill	(R-2019)	Logic & Computer	Architecture Dec 2022	
20	1/4	2022	,	(2 hours)		
.В.	1	,		(3 hours)	Total Marks: 80	0
	3.	Question No. 1 Attempt any tl Assume suitab Figures to the	Tree questions c	remaining five quest and justify the assum	ions aptions	
1	A	Convert				
		i) 123 in to bin	ary			95
		ii) (AB9) <sub>16</sub> in to iii) (351) <sub>8</sub> in to	decimal			
		iv) 129 in to B(	SD			
		v) 64 in to gra	y code			
it			The state of the s	ision format for repre	senting floating point number	05
		Exhiam 2K LII	Priop			05
					programmed control unit	05
12	A	Draw the flow 5 x 2 using boo	chart of Booths algoths algorithm	gorithm for signed mu	ltiplication and Perform -	10
	В	Explain the di	fferent addressing r	nodes.		10
)3	A	rommut			precision and Double precision	10
	В	Explain Micro	instruction format	and write a micropro	gram for the instruction	10
<b>Q</b> 4	A	Consider a 4-v main memory 1. Size of cacl 2. Tag directo	ne memory	mapped cache with be are 10 bits in the tag.	lock size 4 KB. The size of the Find-	10
	D	Évaloia Plan		\$		
	В	Explain Flyn	n's classification			10
Q5	A	Explain differ	ent types Distribut	ed and Centralized bu	s arbitration methods	10
	В	( ) · ·	# *	ann Model with a nea		05
	C		characteristics of M			05
						00
Q6	7 7	Write Short n	otes on	,5 °		20
1		a) Grey code,	BCD, Excess-3 Co	ode with example		
	4.	b) Encoder ar	nd Decoder			
		c) Cache coh	erence			
	*	d) Instruction	Pipelining			
		\$3° 5	, <u> </u>			