

CONTINUOUS INTERNAL EVALUATION- 3

Dept:CSE	Sem / Div: 3/A&B	Sub:Computer Organization	S Code:18CS34
Date:16/02/2021	Time: 2:30-4:00	Max Marks: 50	Elective:N
Note: Answer any 2 full questions, choosing one full question from each part.			

Q N	Questions	Marks	RBT	COs
PART A				
1 a	Write down the steps of booth multiplication algorithm. Perform booth multiplication between $(+13)*(-6)$	10	L3	CO4
b	Write down the steps of non restoring division algorithm. Apply non restoring division algorithm on $18/7$	10	L3	CO4
c	Explain with a neat figure the circuit arrangement for binary division	5	L3	CO4
OR				
2 a	Using sequential multiplication, multiply $22*10$	10	L3	CO4
b	Write down the steps of restoring division algorithm. Apply restoring division algorithm on $25/4$	10	L3	CO4
c	Using bit pair recoding multiply $(+13)*(-6)$	5	L3	CO4
PART B				
3 a	Discuss with a neat diagram, the single bus organization of the data path inside a processor	10	L2	CO3
b	Explain three bus organization of data path with a neat block diagram	10	L2	CO3
c	Write the control sequence for instruction Add R4, R5, R6 for 3 bus organization	5	L3	CO3
OR				
4 a	Explain Hard Wired Control unit organization in a processing unit	10	L2	CO3
b	What do you mean by micro instruction? Design basic organization of a micro programmed control unit with diagram.	10	L2	CO3
c	Write the control sequence for the execution of the instruction Add (R3),R1 in the execution of a complete instruction	5	L3	CO3