Subject: Computer Architecture and Organisation Subject Code: C 5205

Name: Subhojit Chimire

Cry 19: 7310760

Branch: CSE-B

Q. Compute 1613 using Restoring Alogrithm.

Solm: Q, Dividend=11612 = (10000)2

M, Divisor = (3) 10 = (00011)2

N = 5 A = 0

A	1)		
~	M	A. A. Q	Operation
5	00077	00000 T0000	Initialisation.
5	00017	00007 0000-	L.S. AQ
		77770 0000-	A = A-M
		0000T 00000	QTOJ=0; Restore A
4	00017	0000 0000	L.S. AQ
		TITIT 0000 -	A = A - M
		00000 00000	Q [0]=0; Restove A
3	00077	00700 0000-	1
		0000 10000.	- A=A-M
		00007 0000	1 CoJ=1;
2	11000	00070 0007	- L.S.AQ
		LL LL L 000L A = A-M	
		000 000	10 Q [0]=0; Restoref
	00011	000100 001	0 - 6.8. Ag
		00007 000	
			~

Remainder Quotient

: Remainder = (00001) = (1) 10

.: Quotient = (00101) = (5) 10