

Green University of Bangladesh

Department of Computer Science and Engineering

Course Assignment – Summer 2021

Course Title: Computer Architecture

Course Code: CSE-211

Submitted To:

Name : Syed Ahsanul Kabir Designation : Associate Professor

Department :CSE

Green university of Bangladesh

Submitted by:

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Section :DB Batch :193

Department : CSE

(193002101) Ans to the a.no: I Ab B2 В, Ba A Do Dz B3 B2 B1 B0 A3 AZ A1 A0 C 13 B2 53 52 5, 50 03 62 B, Do A3 A2 A1 A0 80 -0 Co 53525,50 D3 B2 B1 B6 A3A2A1A0 CI 62 (3 CC Scanned with CamScanner

(193002101)

And to the a. No: 02

<u>M</u>	A 000000	10101
1 [000111	000001	0101- LS A3Q 01010 A=A-M,Q=0
2 000111	110101	1010_ LS A, Q 10100 A = A+M, Q=0
3 000111	110 111	0100_ Ls, A,Q 01000 A=A+M,Q=1
4 000111	000011	1000_ LS A, Q 10001 A = A+m, Qo=1
000111	000111 000000 J Remainder 20	0001 - LS, A, Q 00011 A=A-M, Q=1 Quotient=00011

Ans to the a. No: 3

Time for non-pipelined execution per took

to = 6000

time for Pipelined exacution per took

tp=20 ng

The numbers of segment k=5numbers of took n=200

we know,

$$s = \frac{-t_n}{-t_p}$$

The time for non-Pipelined In 260x200 = 12000 ns

time fore Pipelined Tp = (K+n-1) +p = (5+200-1) x 26

= 4090 ns

$$\frac{5}{-4080} = \frac{12000}{4080} = 2.94$$

Ans,)