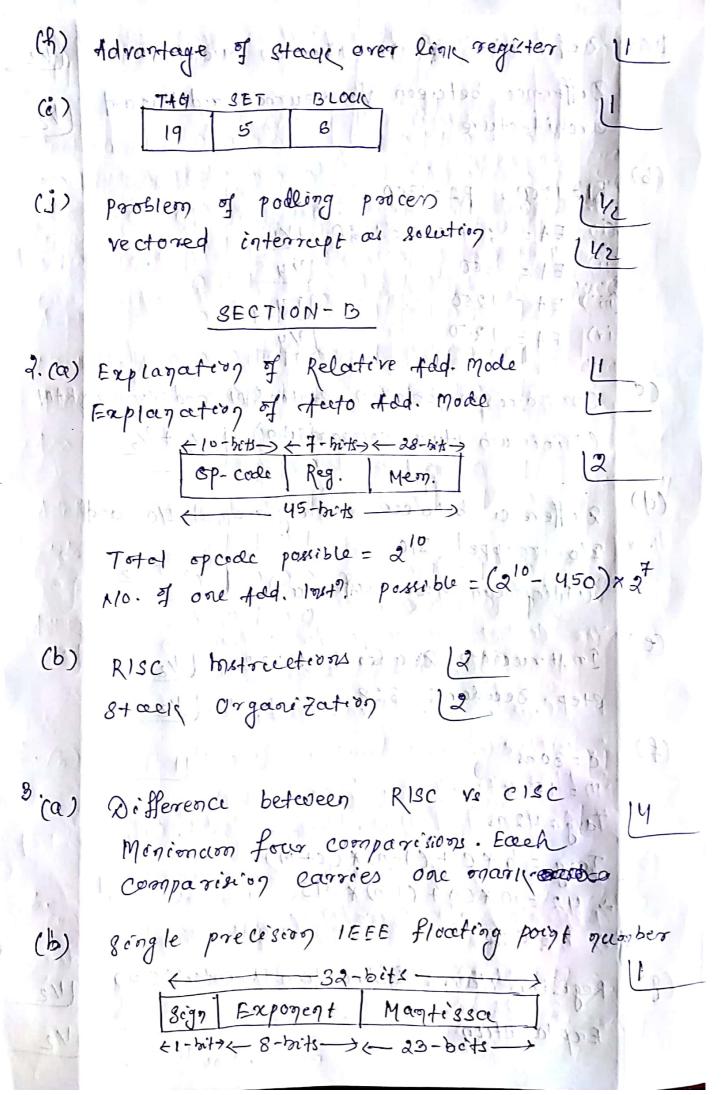
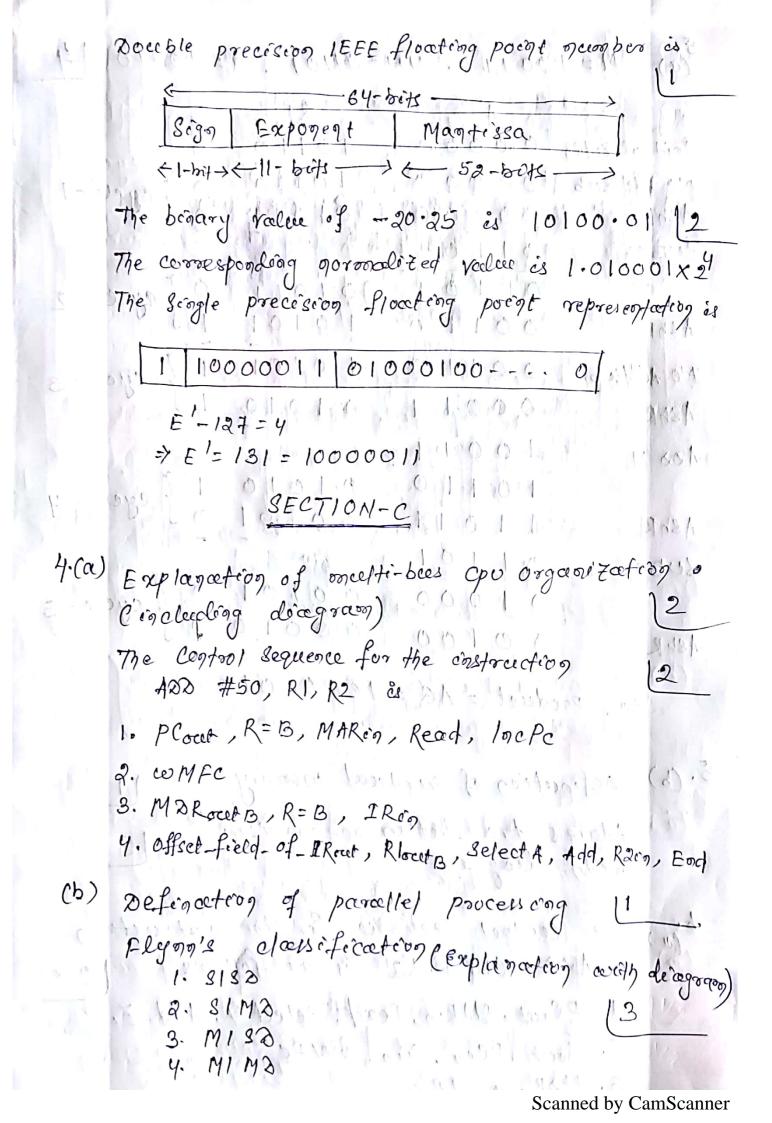
## SPRING END SEMESTER EXAMINATION -2019 COMPUTER ORGANIZATION AND ARCHITECTURE

1·(a)	Defination of von-Neuman larchitecture!	1/2
	Difference between von-Neuman and Havard	100
	Difference between von-Neuman and Havand curchitecture	1/2
(6)		
(3)	RI = 1200, R2 = 1300 a product to continue	(i)
	(i) EA = 20+ 13 0 = 1320 (Vy)	
(	(i) $EA = 20+13 = 0 = 1320$ , $Vy$ (ii) $EA = 300$ $Vy$ (iii) $EA = 1200$ $Vy$	014-1
(	(iii') EA = 1200	10/10/11
(	ir) EA = 1200	
(6)	11) EA = 1200	(10) 15
	Comparison between state RAM and Cynamic	RAM
	C Min inan two Compa sision) 1/2 + 1/2	1.11
1415	عراد الأولاد الأولاد المراجع ا	
(9)	Difference between oneonory onapped I/O and	181
1. 1.	I/o mapped I/O	
1	I/o mapped I/O ? Minimien + wo différence) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
G- \		
(e)	Instruction Decoder: 5:3211 (12)	(8)
	8tep Decoder: 3:8,1, 1/2012	
603		
(f)	c = 30 ms	
Ut	m=15 ms 200 DELLA MOSPOLOS	8:00
-	1arg = 42 78	1 1 h
	Targ = h * C + (1-h) * Cc+ m)	
	+ 42 = h * 30 + (1-h) * 45	146
190	Arano . 2 Month la sall Company of	(6)
(8)	Register Name: Instruction pointer (IP)	16 10 10 10
Cu	The state of the s	1/2
	Explanation	1/2





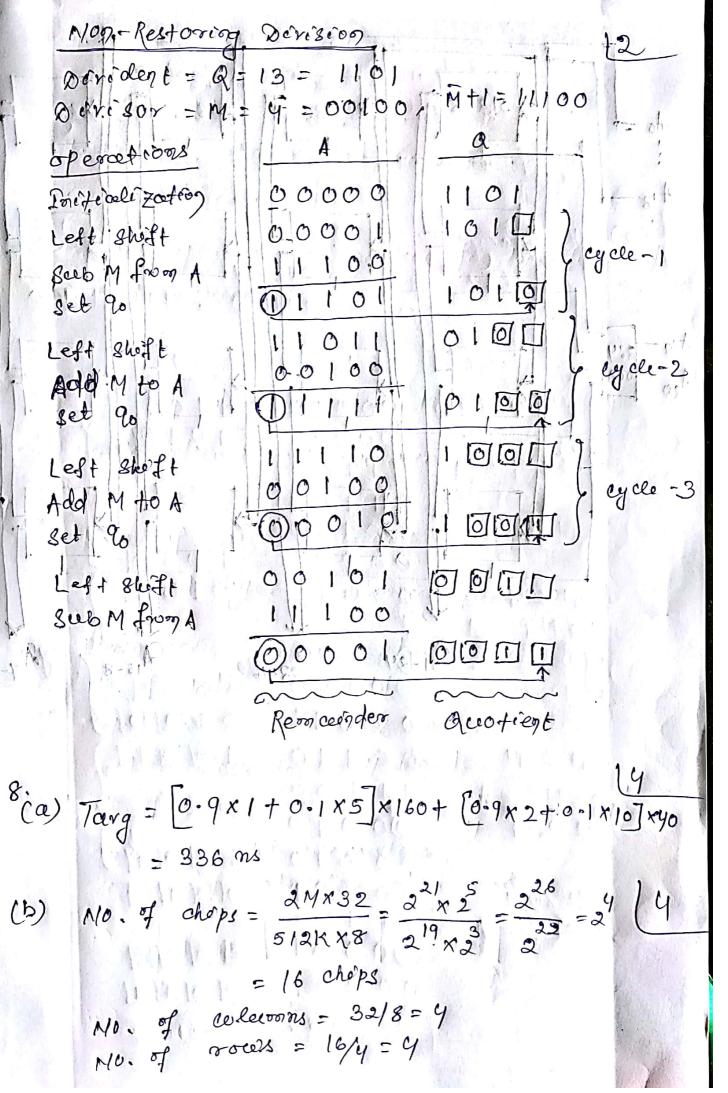
```
M=10011, M+1=01101, Q=10110 4
(a)
 Initialization 00000
ASHR 00000 01011 0 3 cycle-1
BUBM 0111
         01101
SUBM
                  01011 0 F cycle - 2
         01101 01011
 ASHR
        000101100110101011
NO Add/2015
         00011 01010
 ASAR
         10011 1000
ADD M
         10110 01010
         11011 00101
 AShR
SUBM 01,101
         00100 00010 p 5 cycle-5
          1000 00101
ASHR
   30, product = AQ = 10000010
         5. (b) Defination of virtual mergary
    Address translation mechanism
    with diagrass
    The control scauence for the onstruction
    122 (RI)+, R2 es as follocos
    1. PCout, MARON, Read, Select 4, Add, Zon
    2. Focet, PCen, Yin, WMFC
    3. MDRout, IReg
```

	4. Rlocal, MAROS, Reacd, Select 4, Add, Zing
	Decredo 4, And, Digo 192
in the state of th	5. Zocet, Rlog, Barrows Dogs WMFC
	5. Zocet, Rico, Barrow, Mago COMFC Resout, Ping, Beled P, Add, Zon, Mado.
	8. Zocet, Raco, End
9	
	The corresponding one crorrectione for the aforesaid
	control sequence
(4)	Types of docta transfer techniques !!
	Color of good of the color of t
1201.	Explanceton of 2MA (coorneing principle) 13
7·(a)	
()	
	Use and types of onappong forgation !!
les.	Moein memory Size is 1281 x32
The state of the s	NO. of Address lone = 17
	Total coache has 2048 words
	and a block size - 4 woords
7 60a v	No. of blocks of coche = 2048 = 5/2 = 29
b	
	Tour of tentrale 291
14.7	SO, no. of Bots sels = 29/21 = 28
	(i) TAG SET Block 7-bits 8-bits 2-bits
	भार्याचा १३-७०%
	(ii) Tog = 7-bits soze of coehe with tog bits = 2048x32+512x7
	50 to 4 control 1 1 1 1 20 12 12 12 12 12 12 12 12 12 12 12 12 12
	12

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where, coehe fize in 2048/ words;
each word is 32-bit, not of blacks on
coeke is 5112 and each pag block having
tog of. The bester ! . 18 1 . 18 19 . 1999 811 1
6-3 . 6.2. 4.8
Dévident = Q = 13 = 01101
Dévident = Q = 13 = 01101 Divisor = M = 4 = 00100, M+1 = 1100
Divisor = 19 = 9 = 00
opercet cons A
Inite alization coopodo 1101
Left Shift 00001 101
806 M 7000 4 11100
Restore, 00100
000011010
Left 8004 1 000 0 1/11 1911 0 1 0 1 0 1
806 M from A 11100
Dii 11 cycle-2
Restore 00100
Dono so sono, I have on boll of
Left shift 00110
800 M from A 111 1 00 cycle-3
set 40 = 1
Lodd on of t
300 M from A 00001 000000000000000000000000000000
००००। जिल्ला
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