Muhammad Iftikhar
P180054
Section - A

8.00 am

(1) $((b+a)^* | (b|a))^* (ab)^*$

8.30

b =

9.00

a =

9.30

$b+a$ =

10.00

10.30 $(b+a)^*$

11.00

11.30

Noon

12.30 $(b+a)$

1.00

1.30

2.00

$\{(b|a)^* | (b|a)\}$

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

Muhammad Iftikhar
P180054
Section - A

8.00 am

(1) $((b+a)^* | (b|a))^* (ab)^*$

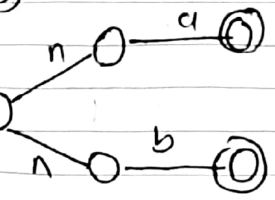
8.30

b =

9.00 a =

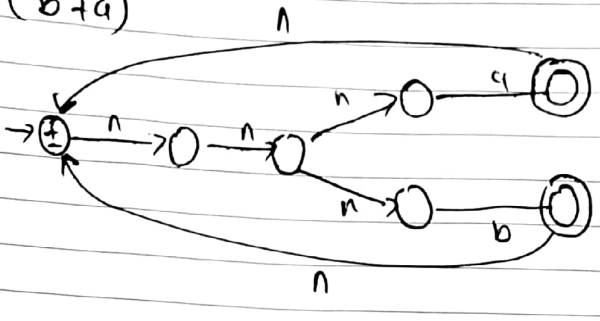
9.30

$b+a$ =



10.00

10.30 $(b+a)^*$

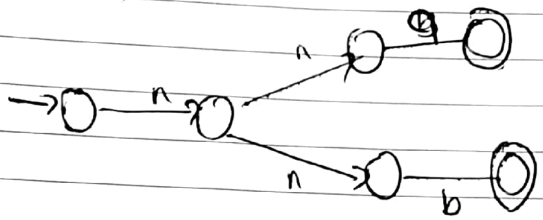


11.00

11.30

Noon

12.30 $(b+a)$

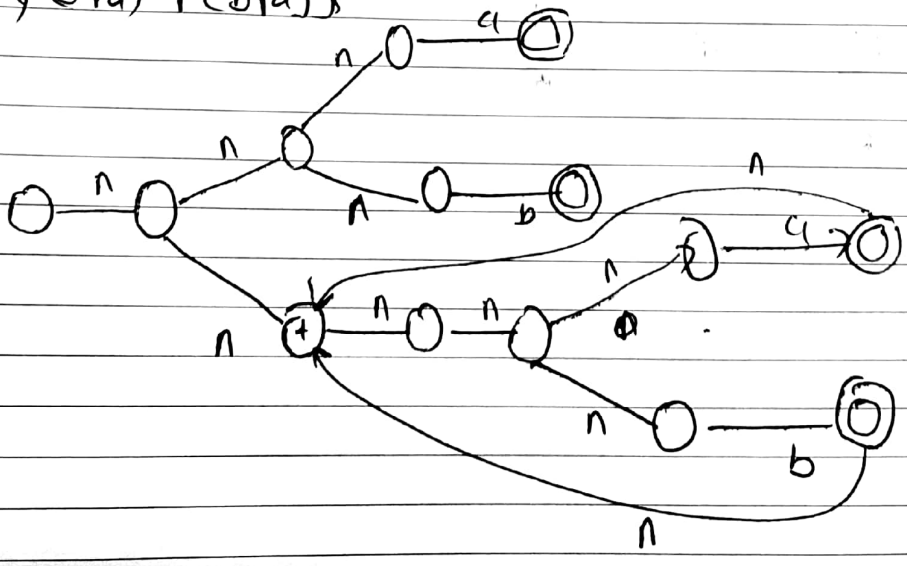


1.00

1.30

2.00

$\{(b|a)^* | (b|a)\}$



2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

January

WEEK 5

November 2019						
M		4	11	18	25	
T		5	12	19	26	
W		6	13	20	27	
T		7	14	21	28	
F	1	8	15	22	29	
S	2	9	16	23	30	
S	3	10	17	24		

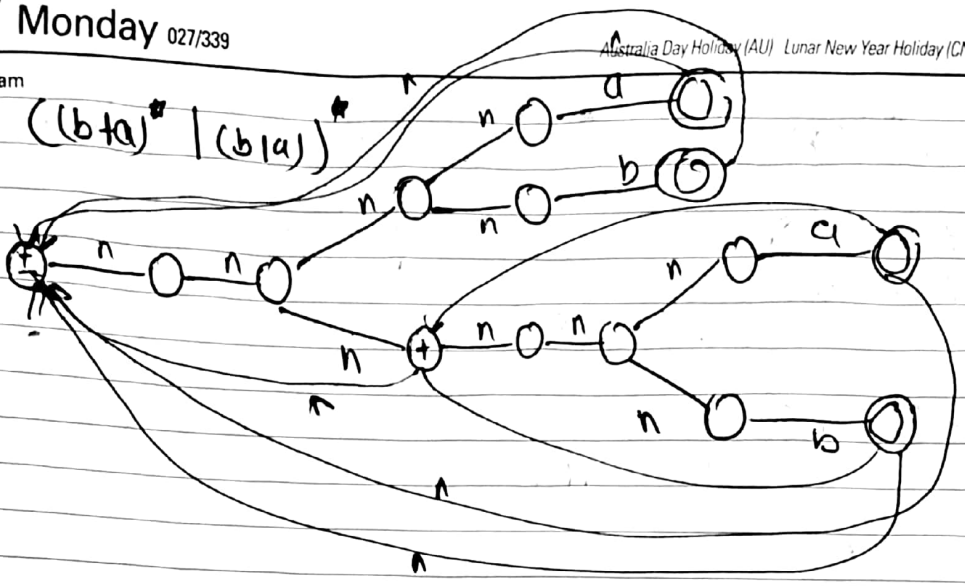
December 2019						
M	30	2	9	16	23	
T	31	3	10	17	24	
W		4	11	18	25	
T		5	12	19	26	
F		6	13	20	27	
S		7	14	21	28	
S	1	8	15	22	29	

January 2020						
M		6	13	20	27	
T		7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	31	
S	4	11	18	25		
S	5	12	19	26		

27 Monday 027/339

Australia Day Holiday (AU) Lunar New Year Holiday (CN) Chinese New Year Holiday (SG)

8.00 am



8.30

9.00

9.30

10.00

10.30

11.00

(a b)*

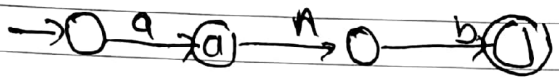
11.30

a b = → ○ —a→ ◎

Noon

b = → ○ —b→ ◎

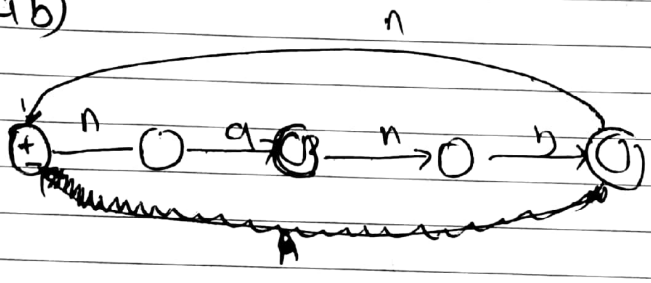
12.30



1.00

1.30

(a b)*



2.00

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

February 2020

M		3	10	17	24
T		4	11	18	25
W		5	12	19	26
T		6	13	20	27
F		7	14	21	28
S	1	8	15	22	29
S	2	9	16	23	

March 2020

M	30	2	9	16	23
T	31	3	10	17	24
W		4	11	18	25
T		5	12	19	26
F		6	13	20	27
S		7	14	21	28
S	1	8	15	22	29

April 2020

M		6	13	20	27
T		7	14	21	28
W	1	8	15	22	29
T	2	9	16	23	30
F	3	10	17	24	
S	4	11	18	25	
S	5	12	19	26	

January

WEEK

Lunar New Year Holiday (CN)

028/338 Tuesday 2

8.00 am

8.30

9.00

9.30

10.00

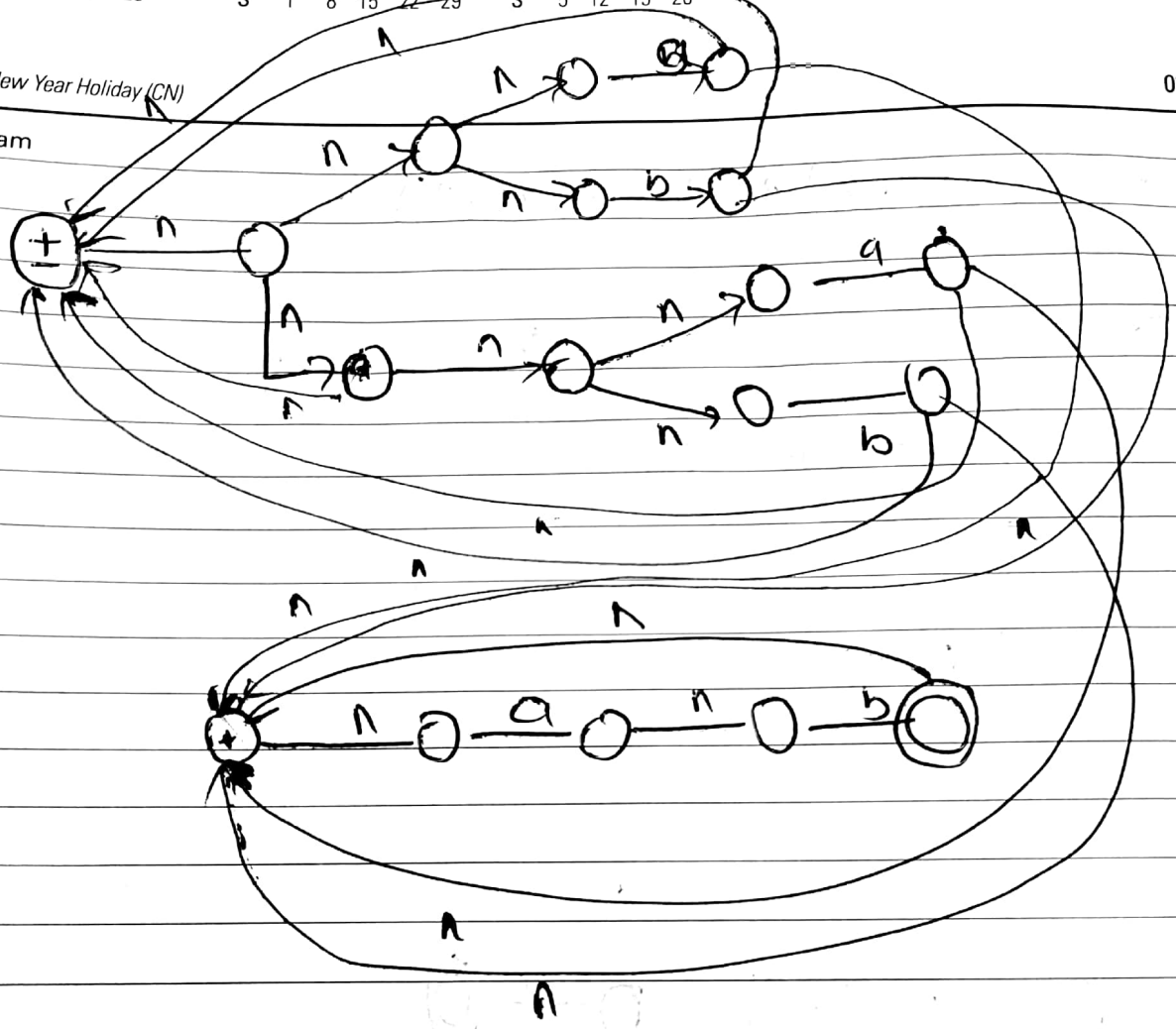
0.30

.00

30

on

0



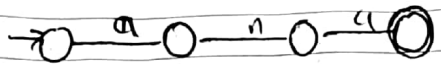
8.00 am

(2) $a(aa)^* + (a(aa)^*b + b)^*(\lambda + a(aa)^*)$

8.30

$a =$ 

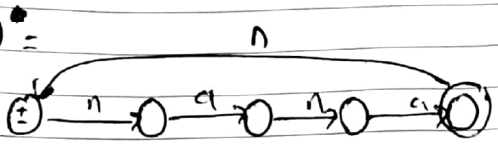
9.00

$aa =$ 

9.30

$(aa)^* =$

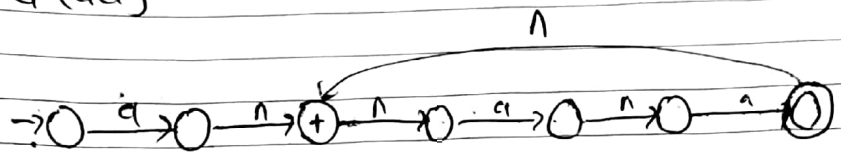
10.00



10.30

$a(aa)^*$

11.00

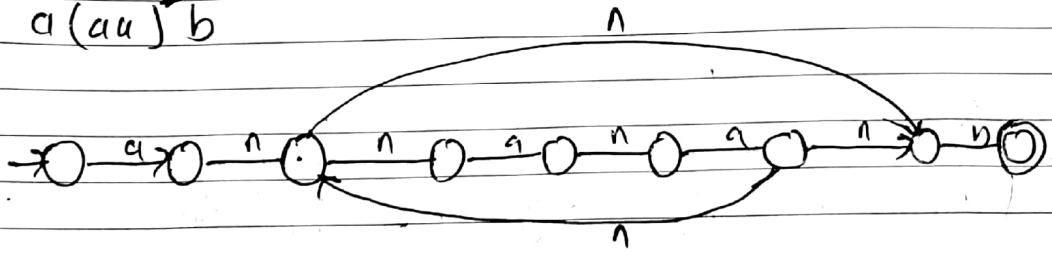


11.30

Noon

$a(aa)^*b$

12.30

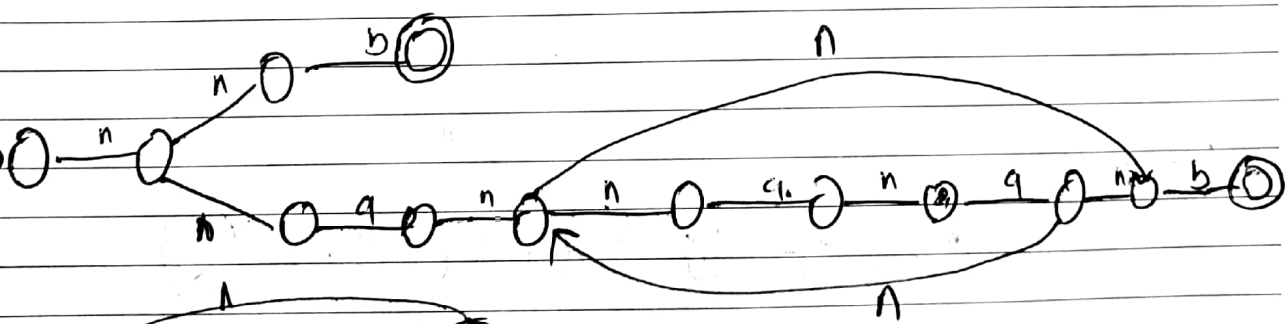


1.00

1.30

2.00 $(a(aa)^*b + b)^*$

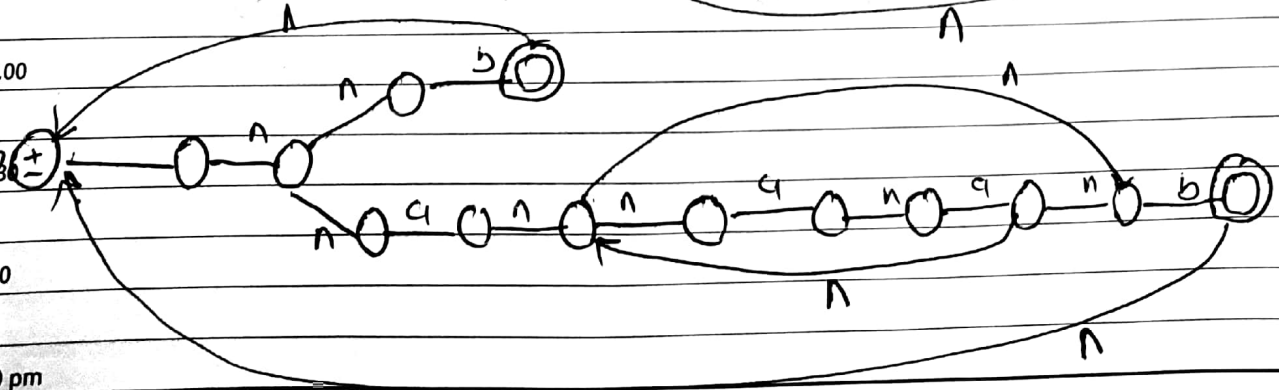
2.30



3.00

3.30

4.00



4.30

5.00

6.00 pm

January

WEEK 5

November 2019						
M		4	11	18	25	
T		5	12	19	26	
W		6	13	20	27	
T		7	14	21	28	
F	1	8	15	22	29	
S	2	9	16	23	30	
S	3	10	17	24		

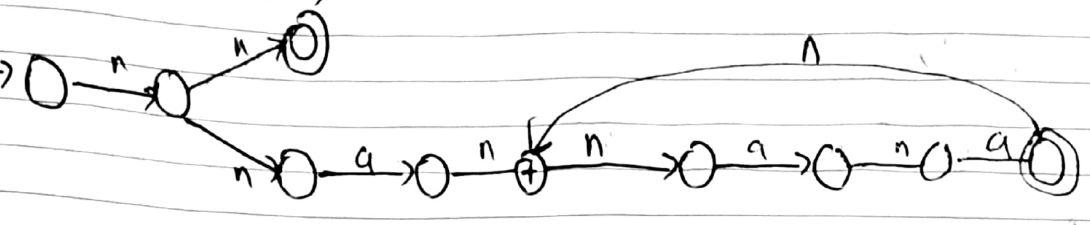
December 2019						
M	30	2	9	16	23	
T	31	3	10	17	24	
W		4	11	18	25	
T		5	12	19	26	
F		6	13	20	27	
S		7	14	21	28	
S	1	8	15	22	29	

January 2020						
M		6	13	20	27	
T		7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	31	
S	4	11	18	25		
S	5	12	19	26		

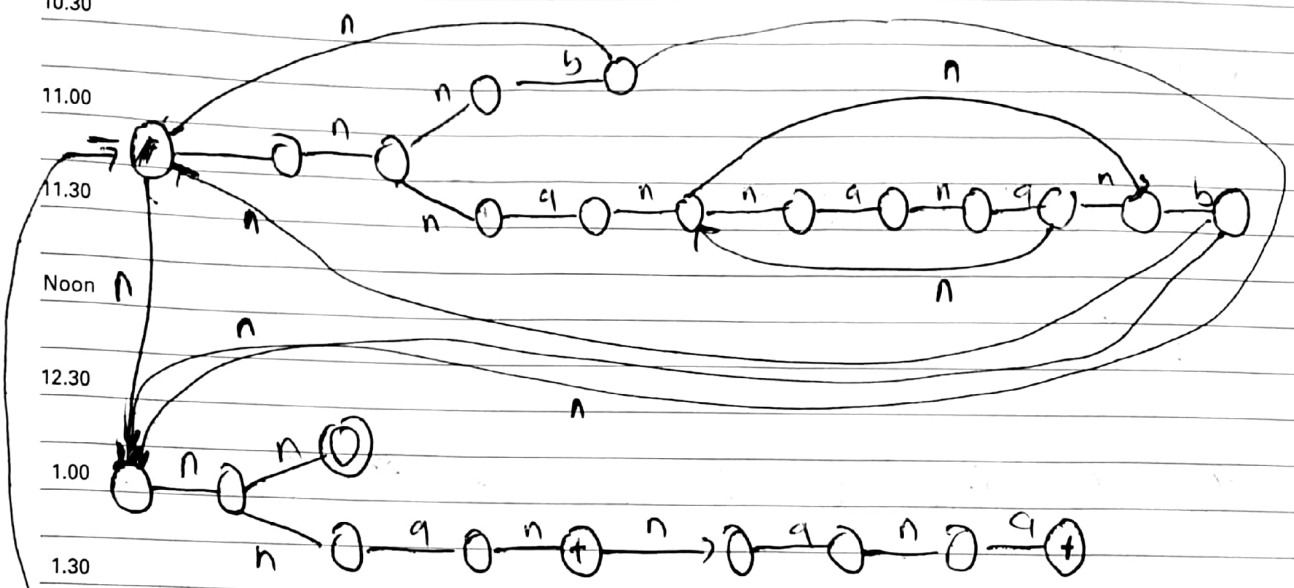
31 Friday 031/335

8.00 am

$(\wedge + a(aa)^*)$

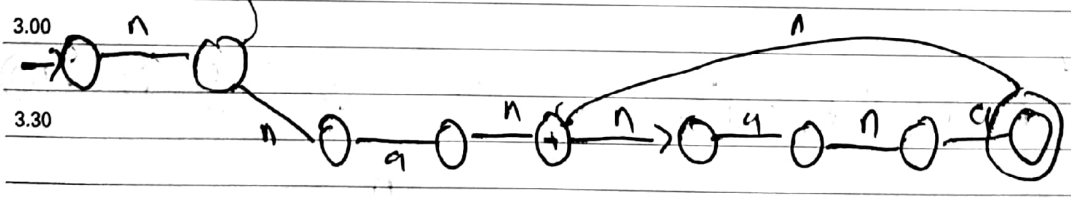


10.00 $(a(aa)^*b + b)^* (\wedge + a(aa)^*)$



Now

$a(aa)^* + (a(aa)^*b + b)^* (\wedge + a(aa)^*)$



8.00 am Question #03

8.30 Input Sequence aabab

9.00

Moore Machine

9.30

	a	a	b	a	b
q_0	q_2	q_1	q_2	q_1	q_2
1	1	0	1	0	1

10.00

10.30

11.00

Output = (1 1 0 1 0 1)

11.30

Noon Mealy Machine

2.30

a	a	b	a	b
q_0	q_0	q_1	q_1	q_2
0	0	1	1	0

1.00

.30

00 Output = (0 0 1 1 0)

0

0

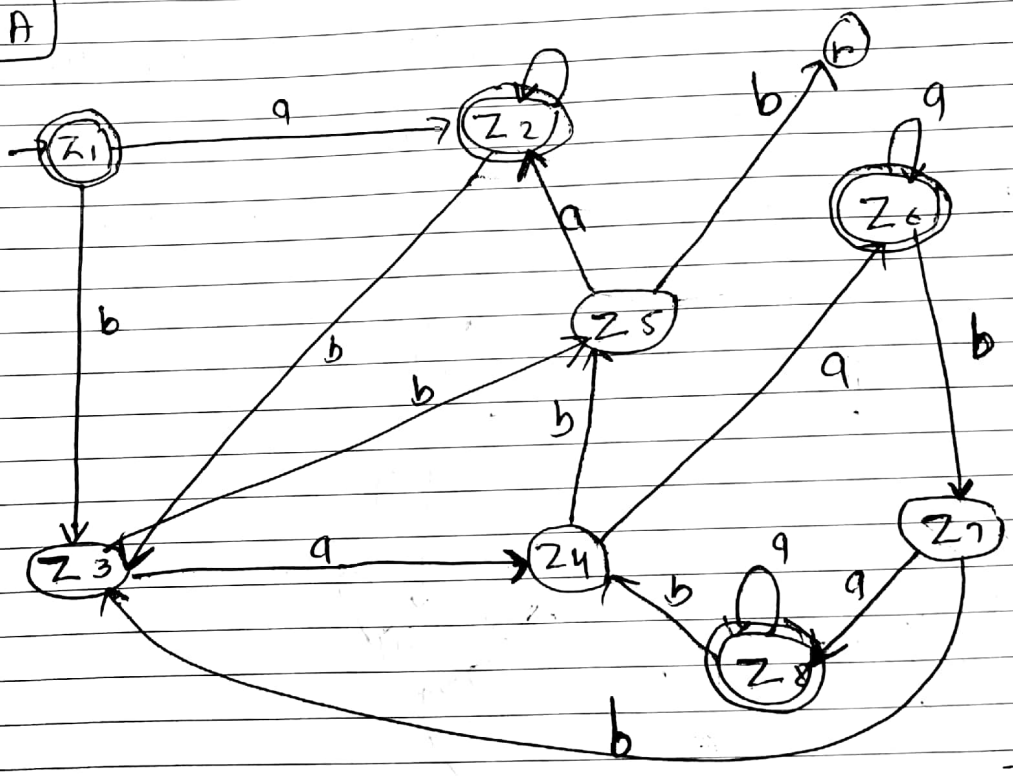
8.00 am (2) NFA b DFA part(A)

8.30 States

	a	b
9.00 → $Z_1\{1,3\}$	$Z_2\{1\}$	$Z_3\{2\}$
+ $Z_2\{1\}$	$Z_2\{1\}$	$Z_3\{2\}$
9.30 $Z_3\{2\}$	$Z_4\{2,3\}$	$Z_5\{3\}$
$Z_4\{2,3\}$	$Z_6\{2,3,1\}$	$Z_5\{3,\}$
10.00 $Z_5\{3\}$	$Z_2\{1\}$	
+ $Z_6\{2,3,1\}$	$Z_6\{2,3,1\}$	$Z_7\{3,2\}$
10.30 $Z_7\{3,2\}$	$Z_8\{1,2,3\}$	$Z_3\{3\}$
+ $Z_8\{1,2,3\}$	$Z_8\{1,2,3\}$	$Z_4\{2,3\}$

11.00

11.30 DFA



Noon

12.30

1.00

1.30

2.00

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

23 Thursday 205/161

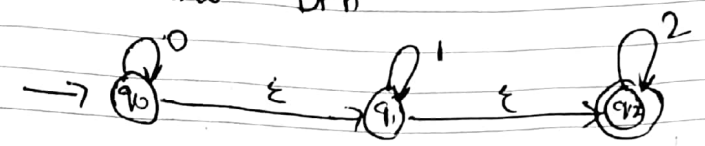
Tokyo Olympics (JP)

8.00 am

part

NFA into DFA

8.30



9.00

9.30

10.00

10.30

States	0	1	2
$Z_1 = \{q_0, q_1, q_2\}$	$Z_2\{q_0\}$	$Z_3\{q_1\}$	$Z_4\{q_2\}$
$Z_2\{q_0\}$	$Z_2\{q_0\}$	$Z_3\{q_1\}$	$Z_4\{q_2\}$
$Z_3\{q_1\}$	-	$Z_3\{q_1\}$	$Z_4\{q_2\}$
$+Z_4\{q_2\}$	-	-	$Z_4\{q_2\}$

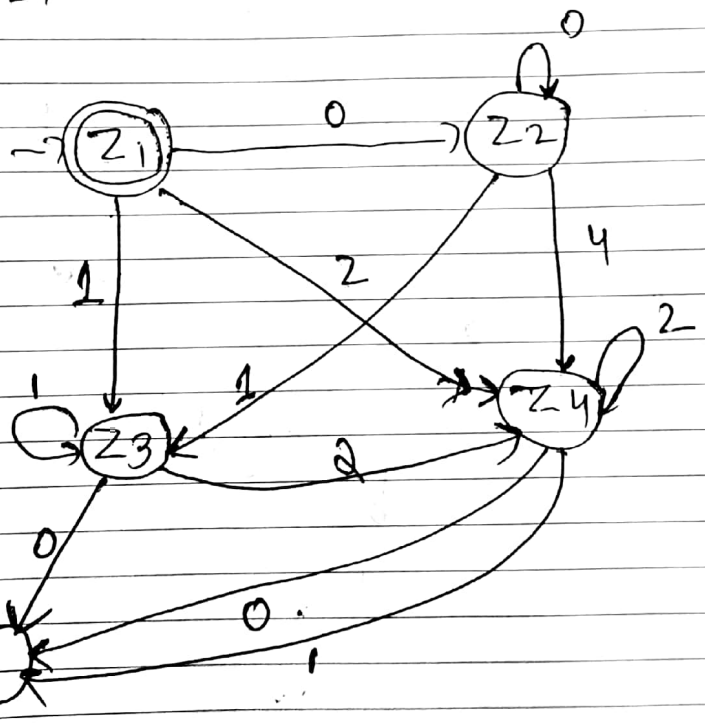
11.00

11.30

Noon

12.30

1.00



1.30

2.00

2.30

3.00

3.30

4.00

4.30

5.00

6.00 pm

6.00 pm