## FLA Unit-2

=> worksheet - 1

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Andl. S -> A BE A -> Sa/a

B -> 365/66/a

i) null production elimination

5-> ASB AB

A -> Sa |a B -> SbS | b3 | Sb | b | bb | a

ii) unit production climination

-> no unit production

iii) All are usefull symbols,

Here, simplified S-> ABB AB

A -> Sala B -> 365/65/56/6/66/a

ANS 2 -> ABC

A-> aAB/E

c -> aclalE

(i) null production elimination

S -> ABC | BC | AB

A -> AAblab

B -> b

c -> ac/a

(ii) unit production elimination

S-> ABC |BC | AB | b

A -> aAb lab

B -> b

c -> acla

(iii) Useless production elimination

All production one usefull symbols.

3-> ABC | BC | AB | b

A -> aAb lab

B -> b

c -> ac/a

$$03$$
 $A \rightarrow 0 \mid \times y$ 
 $\times \rightarrow \times y \mid \varepsilon$ 
 $y \rightarrow y \times 0 \mid \times \mid \varepsilon$ 

- (i) Null Production Elimination

  A -> 0|xx |0 | x |0 | x |0 |

  B -> |xx | 1 x | 1

  Y -> xx 0|x | x 0 16
- (ii) Unit Production

  A -> 0| ny | 0 | y | 0 | x | 0 |

  n -> 1 ny | 1y | 1

  y -> > > > > 1 ny | 1x | 1 | x 0 10
- (iii) Useless Production Elimination

  A -> 0/14/014/01

  B -> / 14/14/1

  y -> 440/14/14/1/1000