

# Activity 01

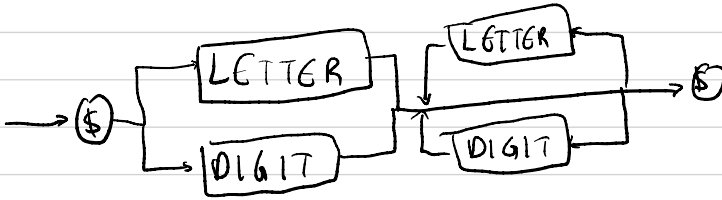
1.

A)  $\{x^i y^j z^k x^m : i=1, j=2, k=3, m \geq 2\}$

B)  $\{w^i x^j y^k z^m : i \geq 0, j > 0, k \geq 0, z \geq 2\}$

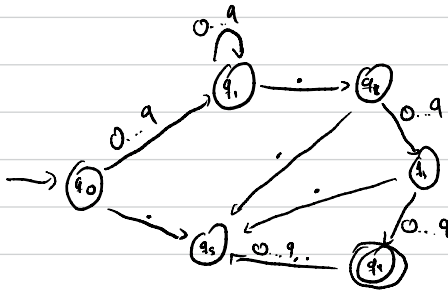
C)  $\{x^i y^j : i \geq 2, j \geq 0\} \cup \{x^i z^j : i > 0\}$

2.

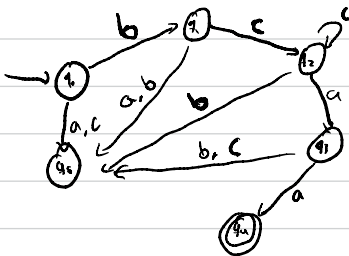


3.

A)



B)



4.

$$S \rightarrow a \quad S \rightarrow a S a \quad S \rightarrow \epsilon$$

$$S \rightarrow b \quad S \rightarrow b S b$$

$$S \rightarrow c \quad S \rightarrow c S c$$