

**Theory of Computation (I)**

**Fall – 2017**

**Quiz # 2**

**Section D**

**Marks :10**

**Time allowed: 10 minutes**

Develop DFA for the following language.

$$\Sigma = \{a,b\}$$

$L = \{x \mid x \in \Sigma^* \text{ \& every 3}^{\text{rd}} \text{ element of the string (if exists) should be } \mathbf{b}\}$