**Computer Science and Engineering Department**

**Thapar Institute of Engineering and Technology**

**Course Code: UCT301**

**Formal Language and Automata Theory**

**Tutorial 5**

1. Find the regular expression corresponding to the figure by using state elimination method and Arden Theorem



1. Using Pumping Lemma, prove that  is not regular.
2. Using Pumping Lemma, prove that perfect cube language is not regular.