Alphabet set {a,b} or {0,1}

**Derive Regular expression for Question 1 to Question 5**

**Question no 1**. All words that contain exactly three b’s in total.

**Question no 2.** All words that contain exactly two b’s or three b’s in total not more.

**Question no 3.** All string that ends in double letter.

**Question no 4.** All string in which the letter b never tripled. This mean that no word contain sub string bbb.

**Question no 5**. Design F.S.M which accepts those strings whose start and end with different symbol, consider alphabet set {a,b}

**Design Finite Automata for Question 1 to Question 5**

**Question no 6.** Design F.S.M for strings having 101 or 110 as a substring.

**Question no 7.** Design F.S.M which accepts strings those have exactly two zero’s anywhere.

**Question no 8.** Design F.S.M which accepts those strings whose start and end with different symbol, consider alphabet set {a,b}

**Question no 9.** Design F.S.M for strings ending in 101 or 110 .

**Question no 10.** Design F.S.M for language.

L={ab^5 w b^4 | w belongs to (a,b) }