## Marks 5+5+5.

For the Regular Expression **(a+b)\*b**, apply the following transformations using the method studied in the class:

- a. From RE to NFA.
- b. The resultant NFA from part (a) to DFA.
- c. Minimize the resultant DFA from part (b).
- Q2. **[5+5+5 = 15pts]**For the Regular Expression **(a+b)\*aa**, apply the following transformations using the method studied in the class:
  - a. From RE to NFA
  - b. The resultant NFA from part (a) to DFA
  - c. Minimize the resultant DFA from part (b)

Question. Marks 10

Minimize the following DFA using partition method.

