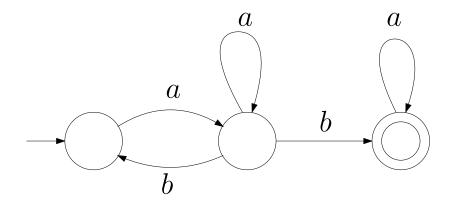
## Quiz 3

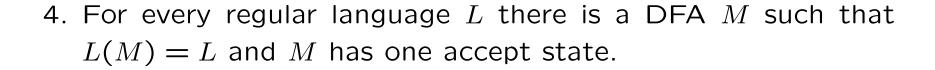
1. Which of the following regular expressions expresses the language accepted by the FA below:



- (a)  $(ab)^*aba^*$
- (b)  $aa^*ba^* + (ab)^*ab$
- (c) a(ba + a)\*ba\*
- (d)  $aa^*ba^*$

- 2. To obtain an NFA for the *complement* of L, you can start with an NFA M for L and switch the status of each state from "accept" to "non-accept" and vice versa.
  - (a) True
  - (b) False

- 3. In the procedure of converting an NFA M into a right-regular grammar G, the transitions of M correspond to
  - (a) Variables of G
  - (b) Terminals of G
  - (c) Production rules of G
  - (d) None of the above



- (a) True
- (b) False

5. The following grammar is regular:

$$S \to abA|\lambda$$
 
$$A \to Bba|abaA$$
 
$$B \to Bbbb|\lambda$$

- (a) True
- (b) False