1. According to the Wikipedia article on Regular Languages, which of the following is equivalent to a language being regular?
   (a) It can be generated by a regular grammar  
   (b) It is the language accepted by an alternating finite automaton  
   (c) It can be accepted by a read-only Turing machine  
   (d) All of the above

2. According to the Wikipedia article on Regular Languages, which of the following is true?
   (a) To prove that a language is not regular, one often uses the Abbott–Harris theorem  
   (b) Regular languages are contained within the Chipotle hierarchy  
   (c) The notion of a regular language has been generalized to trees  
   (d) All of the above

3. True/False: The invention of a nondeterministic FA led to Rabin and Scott receiving the Turing Award in 1976.

4. True/False: Nondeterminism is the same as randomness.

5. If \( R \) is a regular language, then so is
   (a) The set obtained by taking each string in \( R \) and removing its first letter  
   (b) The set obtained by taking each string in \( R \) and removing all the 0’s  
   (c) The set obtained by taking each string in \( R \) and reversing it  
   (d) All of the above

6. True/False: An FA whose language is all strings of length at least 2021, must have at least 2022 states.

7. True/False: There exist languages \( A_1 \) and \( A_2 \) that are regular but their union \( A_1 \cup A_2 \) is not regular.

8. True/False: There exist languages \( B_1 \) and \( B_2 \) that are not regular but their union \( B_1 \cup B_2 \) is regular.