Q1: Tuples

What will be the value of `var` after we enter the following at the console?

```javascript
var = [1,2],
```

A. Nothing – Syntax Error occurs
B. `(1, 2,)`
C. `([1, 2],)`
D. `([1,2])`
E. none of the above
Q2: Tuples

What will be the value of var after we enter the following at the console?

\[ \text{var} = 1, (2, 3), \]

A. Nothing – Syntax Error occurs
B. \((1, 2, 3)\)
C. \((1, (2, 3), )\)
D. \((1, (2, 3))\)
E. none of the above
Q3: Tuples

If \( \text{tuple1} = ('a', 'b', 'c', 'd') \)
what would the value of \texttt{tuple1} be after performing the following:
\[ \text{tuple1}[0] = 'e', \]

A. Error – tuples don’t support item assignment (immutable)
B. ('e')
C. ('e',)
D. ('e', 'b', 'c', 'd')
E. none of the above
Q4: Tuples

If `tuple1 = ([1,2],[3,4])`

what would the value of `tuple1` be after performing the following:

`tuple1[1][1] = 5`

A. Error – tuples don’t support item assignment (immutable)

B. `([1,2], 5)`

C. `([1,2,3,5])`

D. `([1,2], [3,5])`

E. none of the above
Q5: Tuples

- If \( \text{nums} = (11, [22, 33]) \)
  
  what would the value of \( x \) and \( y \) after performing the following:
  
  \[
  x, y = \text{nums}
  \]

A. Error – you can only have one variable name on the left side of an assignment

B. \( x \to (11, [22, 33]) \)
   \( y \to (11, [22, 33]) \)

C. \( x \to 11 \)
   \( y \to [22, 33] \)

D. \( x \to [22, 33] \)
   \( y \to 11 \)

E. none of the above
Q6: Sets

If 

```python
set1 = set(['a', 'b'])
```

what would the value of `set1` be after performing the following operations?

```python
set1.add('a')
set1.add('a')
set1.add('a')
set1.add('b')
```

A. {'a', 'a', 'a', 'b', 'b'}
B. {'a', 'b'}
C. {'a', 'b', 'a', 'a', 'b'}
D. {[ 'a', 'b' ]}
E. none of the above
Q7: Set Methods

If
set1 = set(['a', 'b', 'c', 'd']),
set2 = set(['b', 'd', 'e'])
what would the value of set3 be after performing the following operations?
set3 = set1.intersection(set2)
set3 = set1 - set3
set3.add('e')

A. {'a', 'b', 'c', 'd', 'e'}
B. {'b', 'd', 'e'}
C. {'a', 'c', 'e'}
D. {'e'}
E. none of the above