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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Correct Incorrect

1. Question

- Which of the following is a feature of list comprehensions?

- ☐ Reduction in time complexity
- ☐ More amount of memory consumption
- ☐ Shorter lines of code
- ☒ Both a and c

Correct

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2. Question

Which of the following is the output of the following code?

```
list1=[1,2,3,4,5]
```

```
list2=[i%5 for i in list1]
```

```
list2
```

☐ [1, 2, 3, 4, 5]

☐ [5]

☒ [1, 2, 3, 4, 0]

☐ [0,0,0,0,1]



Correct

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3. Question

- If we have two if statements in the list comprehension, then the output is True iff

☐ First if condition is True

☐ Second if condition is True

☐ Either if conditions is True

☐ Both if conditions are True

Incorrect

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4. Question

Which of the following takes only those string that has digit and also stores the value as int?

```
list1=['1','a','3','d','5']
```

☐ `list2=[i for i in list1 if i.isdigit()]`

☐ `list2=[int(i) for i in list1 if i.isdigit()]`

☐ `list2=[int(i) for i in list1 if i.isdigit())]`

☐ None of the above

Incorrect

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5. Question

- Which of the following functions cannot be used with lambda functions?

☐ **map()**

☐ **filter()**

☐ **remove()**

☐ **reduce()**

Incorrect

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6. Question

Which of the following is the output of the following code?

```
list1=[1,-3,4,-8,9,0]
list2=[-x if x<0 else x for x in list1]
list2
```

☐ **[1, 3, 4, 8, 9]**

☐ **[1, 3, 4, 8, 9, 0]**

☐ [-1, 3, -4, 8, -9, 0]

☐ [-1, 3, -4, 8, -9]

Incorrect

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7. Question

Which of the following gives the output as the cubes of the values from 1 to 10, including 10.

☐ [x**3 for x in range(1,10)]

☐ [3**x for x in range(1,11)]

☐ [3**x for x in range(1,10)]

☐ [x**3 for x in range(10)]

Correct

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8. Question

- Which of the following is the correct way to use filter function?

☐ `filter(lambda i: i,list1)`

☐ `filter(lambda i: list1)`

☐ `lambda i: filter (i), list1`

☐ None of the above

Incorrect

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9. Question

Which of the following is the output of the following code?

```
list1=[1,-2,3]
```

```
[[i+j for i in list2] for j in list1]
```

☐ `[2, 4, 5, 9, 10, 1, -1, 1, 2, 6, 7, -2, 4, 6, 7, 11, 12, 3]`

☐ `[2, -1, 4, 4, 1, 6, 5, 2, 7, 9, 6, 11,10, 7, 12, 1, -2, 3]`

☐ `[[2, 4, 5, 9, 10, 1], [-1, 1, 2, 6, 7, -2], [4, 6, 7, 11, 12, 3]]`

☐ `[[2, -1, 4, 4, 1, 6], [5, 2, 7, 9, 6, 11], [10, 7, 12, 1, -2, 3]]`

Incorrect

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10. Question

- Which of the following gives the output as `['a','B','c','D']` if `list1=['A','b','C','d']`?

☐ `[i.upper() if i.islower() else i.lower() for i in list1]`

☐ `[upper(i) if i.islower() else lower(i) for i in list1]`

☒ `[i.swapcase() for i in list1]`

☐ Both a and c

Incorrect

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11. Question

- Which module should be imported to use reduce() function in lambda functions?

☐ **functools**

☒ **functool**

☐ **funcTool**

☐ **Any of the above**

Incorrect

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12. Question

Which of the following is the output of the following code?

```
list1=[1,-3,0.9,5.6]  
[int(i) for i in list1]
```

☐ **[1, -3, 0, 5]**

☐ **[1, -3, 1, 5]**

☐ [1, -3, 1, 6]

☐ [1, -3, 0, 6]

Correct

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13. Question

- Which of the following will find the sum of the first 5 natural numbers?

☐ `reduce(lambda x,y: x +y,range(1,6))`

☐ `reduce(lambda x,y: x +y,range(1,5))`

☐ `reduce(lambda x,y: x +y,range(6))`

☐ `reduce(lambda x,y: x +y,range(5))`

Correct

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14. Question

Which of the following is the output of the following code?

```
[i for i in "ABCDEFGH" if i not in "aeiou"]
```

☒ ['A', 'B', 'C', 'D', 'E', 'F', 'G']

☐ ['B', 'C', 'D', 'F', 'G']

☐ ['A', 'E']

☐ None of the above

Correct

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15. Question

Which of the following gives the output as True?

☐ `all([i//4 for i in range(4)])`

☐ `any([i//4 for i in range(4)])`

☒ `all([i//4 for i in range(5)])`

☐ `any([i//4 for i in range(5)])`

Incorrect

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