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Started on Tuesday, 4 April 2023, 2:10 PM

State Finished

Completed on Tuesday, 4 April 2023, 2:18 PM

Time taken 7 mins 37 secs

Marks 1.00/4.00

Grade 2.50 out of 10.00 (25%)

Question 1

Incorrect

Mark 0.00 out of 1.00

Ce va afișa codul următor?

```
(define a 1)
```

```
(define b 2)
```

```
(define c 3)
```

```
(let ([a 7]  
      [b a])
```

```
(letrec ([c b])
```

```
(+ a b c)))
```

Select one:

- ☐ a. 10
- ☒ b. 21 ✖
- ☐ c. 6
- ☐ d. 9

Răspunsul dumneavoastră este incorect.

The correct answer is: 9

Question 2

Correct

Mark 1.00 out of 1.00

Ce va afișa programul următor?

```
(let* ([L '(0 1 2 3 4 5 6)] [L1  
→ (filter (lambda (x) (< x 4))  
→ L)])  
  (letrec ([power-3 (lambda (x) (*  
→ (power-2 x) x))]  
            [power-2 sqr])  
    (map power-3 L1)))
```

Select one:

- ☒ a. '(0 1 8 27) ✓
- ☐ b. eroare la legarea lui L1
- ☐ c. '(64 125 216)
- ☐ d. eroare la legarea lui power-3

Răspunsul dumneavoastră este corect.

The correct answer is: '(0 1 8 27)

Question 3

Incorrect

Mark 0.00 out of 1.00

Ce va întoarce următorul cod Racket:

```
1. (define (function x y)
2.   (lambda (x)
3.     (letrec ([y (lambda () z)]
4.              [z x])
5.       (+ x (y)))))
```

```
((function 11 1) 12)
```

Select one:

- ☐ a. 24
- ☐ b. Eroare, z nedefinit la linia 3
- ☒ c. Eroare la linia 5, y NU este o procedură ✗
- ☐ d. 22

Răspunsul dumneavoastră este incorect.

The correct answer is: 24

Question 4

Incorrect

Mark 0.00 out of 1.00

Dat fiind urmatorul code snippet ce se va afisa?

```
(define y *)  
(define (foo x y z)  
  (let ([x y] [y x])  
    (if (= z 0)  
        1  
        (y z (foo x y (sub1 z))))))  
(foo + - 5)
```

Select one:

- ☐ a. -14
- ☐ b. 6
- ☐ c. -2
- ☒ d. 120



Răspunsul dumneavoastră este incorect.

The correct answer is: 6

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