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Submission

Mid term exam

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Course Name	B.Tech..2018.R.CSE.11.15CSE402
Creator	2096 D
Assessment Title	Mid term exam
Number of submissions remaining	0 out of 1
Confirmation Number	1132749-52987-48701CB.EN.U4EIE18019-1631078546251
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Question 35 of 35

1 Points

What is following set of functions outputs

<code>

(define a 2)

(define b 3)

(define (square x) (* x x))

(define (compose f g) (lambda (x) (f (g x))))

(define (repeat f n)

(if (< n 1)

(lambda (x) x)

(compose f (repeat f (- n 1)))))

((repeat square a) b)

</code>

- ☐ A. 64
- ☐ B. None of the above
- ☐ C. 81
- ☐ D. 216

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☐ A. Error: redefinition of syntactic keyword if

☒ B. 9

☐ C. None of the above

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Simply Scheme: Introducing C x

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Mid term exam

Part 1 of 4 - Part A- DF1

Question 13 of 35

1 Points

- What is wrong with the following Scheme function definition?[CO1 – BTL – 1]
(define square (x) (* x x))
- ☒ A. nothing, the function is syntactically correct
 - ☐ B. the function name should be grouped with the formal parameters
 - ☐ C. there is no return statement
 - ☐ D. the keyword is def, not define

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Mid term exam

Part 1 of 4 - Part A- DF1

Question 10 of 35

1 Points

Given the definitions of square as found in the text, how many multiplications are performed if the following expression is evaluated using applicative order? [CO1 – BTL – 4]

(square (square 3))

☐ A. 2

☐ B. 3

☐ C. 1

☐ D. 4

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The default case in a cond exp x

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Mid term exam

Part 1 of 4 - Part A- DF1

Question 7 of 35

1 Points

Given the below definition for procedure a, what would the scheme interpreter print for the function call (a 4 7)?[CO1 – BTL – 4]

(define (a b c)

(if (= b 1)
c
(+ c (a (- b 1) c))))

☐ A. 21

☐ B. 32

☐ C. 28

☐ D. 7

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Mid term exam

Part 1 of 4 - Part A- DF1

Question 6 of 35

1 Points

What is simplest expression for the order of growth of running time for the procedure:

```
(define (mul1 n m)
  (if (= n 0)
      0
      (+ m (mul1 (- n 1) m))
  )
)
```

- ☐ A. $\Theta(n)$
- ☐ B. $\Theta(1)$
- ☐ C. $\Theta(n/2)$
- ☐ D. $\Theta(\log n)$

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Question 5 of 35

1 Points

The default case in a cond expression is signalled by the symbol else.[CO1 – BTL – 1]

☒ A. True

☐ B. False

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The steps required for a tree-recursive fibonacci process is _____ and time required is _____.

☒ A. $\theta(n)$ and $\theta(\phi^n)$

☐ B. $\theta(\phi^n)$ and $\theta(n)$

☐ C. $\Theta(n)$ and $\Theta(n)$

☐ D. $\Theta(1)$ and $\theta(n)$

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