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North South University

Department of Electrical and Computer Engineering

Fall 2021 Final Exam

CSE 425 (Concepts of Programming Language)

Section 2 Total Marks: 30 Time: 1 hour

1. a) What is a mixed-mode expression? What operator usually has right associativity? **3**

b) Differentiate between functions and co-routines. Name a language that allows multiple values to be returned from a function. **3**

c) Consider the following program written in C syntax: **4**

```
void fun (int first, int second)
{
    second;
        second += first;
}

void main() {
int value = 0, list[5] = {1, 2, 3, 4, 5};
fun(value, list[value]);
}
```

For each of the following parameter-passing methods, what are the values of the list array after execution?

a. Passed by value

b. Passed by reference

c. Passed by value-result

2. a) What is a friend function? What is a friend class? **4**

b) Why do you think Java opted out multiple inheritance? **3**

c) Write a comparative analysis of the throw clause of C++ and the throws clause of Java. **3**

3. a) Why do we need competition synchronization? Explain with an example. **3**

b) Using the structures parent(X, Y), male(X), and female(X), write a PROLOG structure that defines sister(X, Y). **4**

c) How does a functional language implement repetition? Give example. **3**

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Q&A

Consider the following Java program, which one of the following best describes "setFlavor"? public class Food { static int count; private...

Q&A

Which best describes a logical error in programming? Select one. Question 7 options: An error that occurs when a computation code...

Q&A

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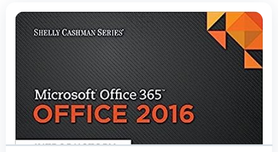

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