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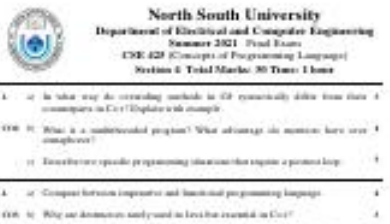
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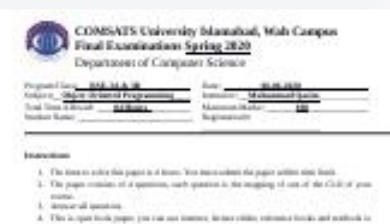
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North South University
Department of Electrical and Computer Engineering
Fall 2021 Final Exam
CSE 425 (Concepts of Programming Language)
Section 2 Total Marks: 30 Time: 1 hour

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

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


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

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