CSE 470 - Software Engineering

QUIZ 5 - Summer 2023

Time: 40mins

Marks:15

NAME -

ID -

All questions are from C04

1. Consider the following function

public static String calculateShipping(int weight, String destination) {

String shippingMethod;

if (weight <= 0) {

shippingMethod = "Invalid";

}

else {

if (destination.equals("Domestic")) {

if (weight <= 1) {

shippingMethod = "Standard";

}

else {

shippingMethod = "Priority";

}

}

else {

if (weight <= 3) {

shippingMethod = "International";

}

else {

shippingMethod = "Express International";

}

}

}

}

a. Draw the CFG for the code fragment. [7 marks]

b. Compute the cyclomatic complexity number C [3 marks]

**Question 2**

Class A{

void foo();

void moo();

}

Class B extends A{

void coo();

void koo();

void moo();

void loo();

}

Class C extends B{

void coo();

void koo();

void roo();

}

Calculate the value of Specialization index (SIX). [5 marks]