**Problem 1:**

**1. What is the difference between an Algorithm and a Program?**

(a) An algorithm is a conceptual idea, a program is a concrete instantiation of an algorithm

**2. True or False? A computational mode of thinking means that everything can be viewed as a math problem involving numbers and formulas.**

(a) True

**3. True or False? Computer Science is the study of how to build efficient machines that run programs**

(a) True

**4. The two things every computer can do are:**

(a) Perform calculations

(b) Convert electricity to numbers

**5. In the following numeric expression, what is evaluated first? 4 ∗ a + 7/(x − y) + (n ∗ ∗3)**

(b) (n \*\* 3)

**Problem 2:**

**1. A sequence of instructions is called a**

(a) program

**2. Writing Python statements is called**

(a) coding

**3. Which programming tool graphically depicts the logical steps to carry out a task and show how the steps relate to each other?**

(a) flowchart

**4. Which programming tool uses English-like phrases with some Python terms to outline the task?**

(d) pseudocode

**5. Integer division is accomplished using the operator.**

(c) /

**Problem 3:**

Flowchart for a program that is to determine if a number is even or odd

