Name:_____Student #: _____Section:___.

IPC144 Quiz2 - Solution

[10 marks]

Multiple Choice: Only **one** correct answer for each question:

1. Which one of the following is not a typical programming construct. **[1 mark]** – (A)
   (A) condition (B) selection (C) iteration (D) sequence
2. _____is a set of conventional symbols connected by arrows that illustrate the flow of control through a programming solution. **[1 mark]** – (B)
   (A) Pseudo code (B) flow chart (C) Pie Chart (D) C program
3. What will be the output (display on screen) for the following C program snippet? **[2 marks]** – (B)

```
int age = 18;
if (age > 12 && age < 16)
        printf("Student Fare - no id required\n");
else if (age > 15 && age < 20)
        printf("Student Fare - id is required\n");
else if (age < 13)
        printf("Child ride for free!\n");
else if (age >= 65)
        printf("Senior Fare - id is required\n");
else
        printf("Adult Fare\n");
```

(A) `Student Fare - no id required\n`
(B) `Student Fare - id is required\n`
(C) `Child ride for free! \n`
(D) `Senior Fare - id is required\n`
(E) `Adult Fare\n`

The following questions 4, 5, 6 use the same options (A-E) below.

(A)
```
Gulp! Slices left 1
Gulp! Slices left 0
```
(B)
```
Gulp! Slices left 2
Gulp! Slices left 1
Gulp! Slices left 0
```
(C)
```
Gulp! Slices left 2
Gulp! Slices left 1
```
(D) `Gulp! Slices left 1`
(E) `Gulp! Slices left 0`

4. Choose your answer from the above (A-E) as the output (display on screen) for the following C program snippet? **[2 marks]** – (A)

```
slices = 2;
 while (slices > 0) {
        slices--;
        printf("Gulp! Slices left %d\n", slices);
 }
```

5. Choose your answer from the above (A-E) as the output (display on screen) for the following C program snippet? **[2 marks]** – (D)

```
slices = 2;
 do {
        slices--;
        printf("Gulp! Slices left %d\n", slices);
 } while (slices < 0);
```

6. Choose your answer from the above (A-E) as the output (display on screen) for the following C program snippet? **[2 marks]** – (A)

```
for (slices = 2; slices > 0; --slices)
     printf("Gulp! Slices left %d\n", slices - 1);
```