ET-575 Second Midterm Examination Fall 2019

Q1. Code the following prompt and value input and value editing in a Do While Loop to make sure you have either 5,7,9,or 11

Request an odd number between 5 and 11 inclusive.

Q2. Code just the nested loop the following diagram using row and col comparisons.

X \* \* \* \* \* X

\* X \* \* \* X \*

\* \* X \* X \* \*

\* \* \* O \* \* \*

\* \* X \* X \* \*

\* X \* \* \* X \*

X \* \* \* \* \* X

Q3. Create a function, named calcCircle that will pass a float value of radius that will output the Circumference and Area of a Circle. The equation of the circumference of a circle is :

Circumference = 2 \* radius \* Pi (Pi = 3.142758.

Area = Pi \* radius \*\* 2 (radius squared).

Q4 . Write the Loop Statements that will only display the numbers from 1 to 99 that contain a ‘7’ in it.

Output:

7 17 27 37 47 57 67 70 71 72 73 74 75 76 77 78 79 87 97

Q5. Display the truth table for the following logical equation:

If ((( A > 5) || (B<0)) && (!((C%2) == 1))))

Determine whether it is TRUE or FALSE for the following values : A = 7, B = 2, C=7

Q6. Coding Question (you must code this problem and submit via Blackboard):

Using Nested Loops display the following exactly as it is shown below:

Columns

Rows 1 2 3 4 5 6 7 8 9

1 11 12 13 14 15 16 17 18 19

2 21 22 23 24 25 26 27 28 29

3 31 32 33 34 35 36 37 38 39

4 41 42 43 44 45 46 47 48 49