Republic of the Philippines
SULTAN KUDARAT STATE UNIVERSITY
COLLEGE OF COMPUTER STUDIES
Isulan Campus, Isulan, Sultan Kudarat

CC 112 – Computer Programming I
Final Examination

Name :_____ Year /Section: _____ Score: _____

Test I. Determine the number of loops. (2 points each)

_____ 1. for (int i = -2; i >= -7; i -= 3)
_____ 2. for (int j = 10; j < 22; j += 1)
_____ 3. for (int x = 5; x <= 11; x+=2)
_____ 4.
```
age = 0;
while (age < 8)
{
        age = age  + 3;
        cout << age << endl;
}
```
_____ 5.
```
num = 2;
do
{
        cout << “Hello” << endl;
        num += 3;
}  while (num <= 4) ;
```

Test II. Write the output of the program code segment below. (5 points each)

6.
```
int main()
{
        for  (int a = 3;  a <= 15;  a += 5)
                cout << a << endl;
return 0;
}
```
OUTPUT:

7.
```
int main()
{
        for  (int count = 5;  count >= -5;  count - = 3)
                cout << count << endl;
return 0;
}
```
OUTPUT:

8.
```
int main()
{
        int x = 1;
        while (x <= 24)
        {
                cout << x << endl;
                x = x + 6;
        }
return 0;
}
```
OUTPUT:

Test III. Identify and discuss the components of the following C++ statements below: (5 points each)

9. int num = 0;
10. int total;
11. cout << " Enter any numeric value" << endl;
12. cin << num;
13. total = total + num;
14. average = total / 5;
15. while (x > 5)
16. for (int x=0; x<=5; x++)

Test IV. Provide the screenshot of your complete program source code and output for Chapter 11 Activity 18 Item 2 and do the following items:

CHAPTER 11 ACTIVITY

ACTIVITY:

1. Create a program that asks the user to enter how many items to input with its corresponding prices using the ***getline() function*** and compute the ***average*** of all the inputted prices. Display the items and prices column by column using ***setw() function*** and the display also the average of all items. (30 points)

2. Create a program that displays the contents of a one-dimensional array named months in a 3 X 4 columns X row format using setw() function following the example below. (20 points)

Display the Contents of a One-Dimensional Array

Example

```
void displayMonths()
{
        string months[12] = {"JAN", "FEB", "MAR",
                             "APR", "MAY", "JUNE",
                             "JULY", "AUG", "SEPT",
                             "OCT", "NOV", "DEC"};
        //display contents of array
        for (int x = 0; x < 12; x = x + 1)
             cout << months[x] << endl;
        //end for
}     //end of displayMonths function
```

Figure 11-5: How to display the contents of a one-dimensional array

17. Identify the different variables you declared and discuss their purpose and function. (10 points)

18. Discuss how the for loop statement/s handled each value of the array elements. (10 points)

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