



## National University of Computer and Emerging Sciences

Program: BS(SE)

Section: \_\_\_\_\_

Date: Oct 10, 2024,

Student Name: \_\_\_\_\_

Registration No. \_\_\_\_\_

Total Marks: 10 marks

Time Allowed: 15 minutes

Instructor: Bilal Khalid Dar

Student Signature: \_\_\_\_\_

### Important Instructions for attempting Quiz

#### *READ ALL QUESTIONS AND INSTRUCTIONS CAREFULLY*

- Carrying of Mobile phone, digital dairies, digital watch, or any electronic device is not allowed.
- Use only Black/Blue color pen. Sharing of anything is forbidden
- **Write your answer in provided space. No answer will be marked outside given space**
- **CUTTING IS NOT ALLOWED.** All questions are self-explanatory and require no further explanations during exam time. Read all questions
- **RETURN the Quiz paper after completion.**

#### QUIZ 3- a

Write the output of the following programs [2+2+2 = 6 marks]

<pre>i = 5; while (i &gt; 0){     cout &lt;&lt; i &lt;&lt; " ";     i++; }</pre>	<pre>int found = -1, count = 5; if (!found &amp;&amp; --count == 0); ++count; cout &lt;&lt; "count = " &lt;&lt; count &lt;&lt; endl;</pre>	<pre>double x = 1, y = 1; int i = 0; do{     y = y / 2;     x = x + y;     i++; }while (x &lt; 1.8); cout &lt;&lt; i;</pre>
Error	Count = 6	3
2 or zero	2 or zero	2 or zero

The following program is used to compute the sum of the first 5 even numbers. Complete the logic. [4 marks]

```
int n = 10, sumE = 0;
```

```
while (n > 0)
```

```
{//write your code below
```

```
if (n % 2 == 0) // Check if n is even
```

```
{
```

```
    sumE += n; // Add even number to sumE
```

```
}
```

```
n--; // Decrement n
```

```
} cout << "sum of even numbers:" << sumE << endl;
```

4 marks if correct else zero



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### QUIZ 3 – b

Write the output of the following programs [2+2+2 = 6 marks]

<pre>int found = -1, count = 5; if (!found &amp;&amp; --count == 0); ++count; cout &lt;&lt; "count = " &lt;&lt; count &lt;&lt; endl;</pre>	<pre>i = 5; while (i &gt; 0){     cout &lt;&lt; i &lt;&lt; " ";     i--; }</pre>	<pre>double x = 1, y = 2; int i = 0; do{     y = y / 4;     x = x + y;     i++; }while (x &gt; 1.8); cout &lt;&lt; i;</pre>
Count = 6	Error	1
2 or zero	2 or zero	2 or zero

The following program is used to compute the sum of the first 5 odd numbers. Complete the logic. [4 marks]

```
int n=10, sum0 = 0;
```

```
cin >> n;
```

```
while (n > 0)
```

```
{//write your code below
```

```
if (n % 2 != 0) // Check if n is odd
```

```
{
```

```
    sum0 += n; // Add odd number to sum0
```

```
    n -= 2; // Move to the next odd number
```

```
}
```

```
else
```

```
{
```

```
    n--; // Decrement n until it becomes odd
```

```
}
```

```
} cout << "sum of odd numbers:" << sum0 << endl;
```

4 marks if correct else zero