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## National University of Computer and Emerging Sciences, Lahore Campus

## **Object Oriented Programming (Version B)**

**Total Marks: 10** 

Section: BCS-9A	Due Date: 19th July, 2023	
Name:	Roll Number:	_
Q1: Write the Output of the Following (5 Marks)	Outsuts	
<pre>#include<iostream> using namespace std; void function_B(int* p, int* &amp;q) {     p = new int;     *p = *q * 3;     cout &lt;&lt; *p &lt;&lt; endl;     *q = *p * 3;     delete p; } void function_A(int* &amp;p, int* q) {     q = new int;     *q = *p + 50;</iostream></pre>	Output:	
<pre>cout &lt;&lt; *q &lt;&lt; endl;     *p = *q - 20;     function_B(p, q);     delete q; } int main() {</pre>		
<pre>int x = 30; int* ptr1 = &amp;x int* ptr2 = new int; *ptr2 = 20; cout &lt;&lt; *ptr1 &lt;&lt; " " &lt;&lt; *ptr2 &lt;&lt; endl; function_A(ptr1, ptr2); cout &lt;&lt; *ptr1 &lt;&lt; " " &lt;&lt; *ptr2 &lt;&lt; endl; function_B(ptr1, ptr2); cout &lt;&lt; *ptr1 &lt;&lt; " " &lt;&lt; *ptr2; delete ptr2; return 0;</pre>		

## Q2: Write the Output of the Following: (5 Marks)

```
#include<iostream>
using namespace std;
void fun(int* a, int* b, int m, int n)
  int i = 0, j = 0;
  cout << "Output" << endl;
  while (i < m && j < n)
     if (*(a + i) < *(b + j))
        cout << *(a + i) << " ";
        j++;
     else if (*(a + i) > *(b + j))
        cout << *(a + j) << " ";
        j++;
     else
        j++;
  }
int main()
  int m, i, j, n, * a, * b;
  m = 5;
  n = 3;
  a = new int[m] \{1, 4, 5, 6, 7\};
  b = new int[n] \{1, 2, 3\};
  fun(a, b, m, n);
  return 0;
}
```