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**Iqra National University Peshawar Pakistan**

**Department of Computer Science**

Summer Semester (Lab Paper), Final Term Exam, September 2020

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| Paper : | **Programming Fundamentals (Lab)** | Date and Starting Time: | **01/October /2020, 09:00 am**  |
| Program: | **BS (CS & SE)** | Uploading Date and End Time: | **04/October/2020, 12:00 pm** |
| Teacher Name: | **Dr. Fazal-e-Malik** | Marks | **100** |

**Note: Attempt all Questions.**

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| Q. 1 | Read A, B and C representing the three sides of a triangle. Write a program to find out its area the formula is given below:$$Area=\sqrt{S(S-A)(S-B)(S-C)}$$Where S= $\frac{A+B+C}{2}$ |
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| Q. 2 | Write a C++ program to get marks obtained by a student in percentage ***P*** and then find the division according to the below rules:* If Percentage P is above or equal to 60 then display…………..1st Division.
* If Percentage Pis between 50 & 59 then display…………………2nd Division.
* If Percentage P is between 40 & 49 then display….……………3rd Division.
* If Percentage P is less than 40 then display………………………Fail.
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| Q. 3 | Write a C++ program to convert 5 feet to the equivalent number of (a) Inches (b) Yards. Where 1foot =12 Inches and 1 yard=3 feet) |
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| Q.4 | Write a C++ program to find the sum of the following series:**2+4+6+8+10** |
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| Q.5 | Write a C++ program to input Hours Worked and Hour Rate of an Employee. Calculate and display the Gross-Pay, Tax and Net-Pay; whereGross-Pay=Hour-Worked\*Hour-RateTax=10% of Gross-PayNet-Pay=Gross-Pay - Tax |

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***Note:***

1. ***I have already uploaded a 20 Marks assignment. If a student does not upload then he/she will get Zero marks out of 20***
2. ***Write the answers in MS Word or hand written in scanned PDF Form in one documents and do not send in Zip Form***
3. ***Please write your Name and ID on top of your answer Paper otherwise you will get zero marks.***