

### **Computational Physics - 3<sup>rd</sup> year – education**

1. a- What is C++? Write a code that explain the main structure of C++ code.  
b- Define the array and build C++ code which works as a calculator.
2. a- Define the header file and Write a code using different header files.  
b- What is the function? build C++ code using a function.
3. a- Define the variable and write a code using different variables.  
b- Explain different arithmetic operations in C++. Build a C++ code which works as a calculator.
4. a- What is the difference between cout and cin in C++? Write C++ code using cin and cout to explain their functions.  
b- Explain different loops in C++ with example.
5. a- Define namespace and build C++ code with and without namespace.  
b- Define the array and build C++ code using array.