

Course Code	:	BCS-031
Course Title	:	Programming in C++Assignment
Number	:	BCA(III)031/Assignment/2024-25
Maximum Marks	:	100
Weightage	:	25%
Last Date of Submission	:	31stOctober,2024(for July session) 30thApril,2025(for January session)

This assignment has three questions carrying a total of 80 marks. Answer all the questions. Rest 20 marks are for viva-voce. You may use illustrations and diagrams to enhance explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation. Wherever required, you may write C++ program and take its output as part of solution

- Q1.** What is a Virtual Constructor? What are its advantages? Explain with examples. **(30 Marks)**
- Q2.** What is a Virtual Function? How does it differ from a Pure Virtual Function? Explain with examples. **(30 Marks)**
- Q3.** What is a Header File? Explain any 5 header files along with their functions. **(20 Marks)**