

Model Paper – 2
Hi-Tech Institute of Engineering & Technology
B.C.A. Examination
(Semester-3rd) Odd Semester
Object Oriented Programming with C++
(BCA-301)

Time: 3 Hours

Maximum Marks: 75

Faculty Name: Ms. Reesha

Note: Attempt questions from all sections as per instructions.

Section – A

Note: Attempt all questions.

5 x 3 = 15

1. What is Encapsulation.
2. What is aggregation and namespaces?
3. What are the various features of Object Oriented Programming Language.
4. What do you understand by Virtual Function and Pure Virtual Functions?
5. Give the General form of derived class.

Section – B

Note: Attempt any two questions.

2 x 7.5 = 15

6. What are the advantages of “NEW” and “DELETE” operators.
7. Explain various data types used in C++.
8. What is friend function? Explain with example.

Section – C

Note: Attempt any three questions.

3 x 15 = 45

9. Write a program to overload unary + and unary - operator
10. Explain the concept of “Abstract classes” and “virtual base classes” with a suitable example.
11. Explain Multiple Inheritance in C++. How would you remove ambiguity in multiple inheritance.
12. What are file and streams ? What do you understand by file pointer ? Explain with the help of an example.
13. Write a program to compare two strings without using string functions.