JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

BCA-III Semester

COURSE CODE (CREDITS): 25BC1CI312 (3) MAX. MARKS: 15

COURSE NAME: OBJECT ORIENTED PROGRAMMING(C++)

COURSE INSTRUCTOR: Dr. Rakesh Kanji MAX. TIME: 1 Hour

Note: *(a) All questions are compulsory.*

(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

(c) Use of calculator is not allowed

Q.No	Question	CO	Marks
Q1	(i)Explain the salient features of Object Oriented Programming. (ii) Define a student class with at least two data member and two methods.	1	2+1
Q2	(i) Specify the access specifiers and their role in Object Oriented Programming. (ii) Explain with an example the purpose of the new and delete operator.	1	2+1
Q3	Write a C++ program to create a class Polygon that demonstrates the concept of function overloading for calculating area of square and rectangle. Define suitable member functions to: • Accept appropriate dimensions for square and rectangle. • Calculate and display the area of a rectangle and square.	1	3
Q4	(i) Write down the behavior of static and global object. (ii) Specify the C++ syntax of dynamic object creation and its method invocation.	2	1+(1+1)
Q5	(i) Write a C++ program to create abstract class Car which must be implemented by a suitable child class. (ii) Describe the late binding.	2	2+1

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