PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2023
(Third Semester)

Branch – **COMMERCE WITH COMPUTER APPLICATION**

FUNDAMENTALS OF C & C++

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1. Identify in C programming language, which of the following type of operators have the highest precedence
   i) Relational Operators
   ii) Equality Operators
   iii) Logical Operators
   iv) Arithmetic Operators

2. Where we cannot use the keyword 'break' simply within _____.
   i) While   ii) for   iii) f-else   iv) do-while

3. Comment on the following pointer declaration? Int *ptr, p;
   i) ptr is a pointer to integer, p is not
   ii) ptr and p, both are pointers to integer
   iii) ptr is pointer to integer, p may or may not be
   iv) ptr and p both are not pointers to integer

4. Match OOPs
   i) Object Oriented Programming
   ii) Object Oral Programming
   iii) Object opposite Programming
   iv) Object Oval Programming

5. How many basic types of inheritance are provided as OOP feature?
   i) 4   ii) 3   iii) 2   iv) 1

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6 a Outline the Basic Structures of C.
                    OR
  b Explain the rules of identifiers.

7 a Develop if and if...else statement.
                    OR
  b Describe for loop statement.

8 a Bring out Structure in C.
                    OR
  b Write syntax, declaration and initialization of pointers.

9 a Draw the Basic C++ Structure.
                    OR
  b Produce Class and Object.

10 a Prepare the Function Overloading.
                    OR
   b Organize the Single Inheritance.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11   a   Classify the Operators in C.

                              OR

    b   What are the Data types in C? Give Examples.

12   a   Examine the Control Structures in C.

                              OR

    b   How to pass Parameters in Functions? Give with neat examples.

13   a   Differentiate the Structures and Union in C.

                              OR

    b   Enumerate the String Library Functions.

14   a   Elucidate OOPs concept in C++

                              OR

    b   Write sample program for Constructor and Destructors.

15   a   Elaborate the types of Inheritance with diagram.

                              OR

    b   Explicit the Polymorphism and Virtual Functions.

Z-Z-Z   END