22SSP208

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION MAY 2023
(Second Semester)

Branch – **SOFTWARE SYSTEMS (Five Years Integrated)**

OBJECT ORIENTED PROGRAMMING WITH C++

Time: Three Hours Maximum: 50 Marks

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

1 How many types of access specifiers are provided in OOP?
i) 4 ii) 3 iii) 2 iv) 1

2 Which is more effective while calling the functions?
i) call by value ii) call by pointer iii) call by object iv) call by reference

3 How many approaches are used for operator overloading?
i) 1 ii) 2 iii) 3 iv) 4

4 Which of the following operator cannot be overloaded?
i) + ii) ?: iii) - iv) %

5 Which keyword is used to handle the exception?
i) Catch ii) throw iii) try iv) none of the above

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

6 a) Analyze about Procedure oriented programming.
OR
b) Explain the structure of C++.

7 a) Explain about private member function.
OR
b) Illustrate the use of friend function in C++ with example.

8 a) Explain about Parameterized constructor.
OR
b) Discuss the overloading of unary and binary operators with example.

9 a) Illustrate about the Hybrid inheritance with example.
OR
b) Explain about aggregation.

10 a) Explain the basic concept of polymorphism.
OR
b) Justify the use of exception handling with example.

Cont...

SECTION -C (30 Marks)

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

11 a) Interpret the concept and benefits of OOP.

OR

b) Elucidate the types of operators in C++ with example.

12 a) Differentiate between private member functions and static member functions.

OR

b) Develop a C++ program to justify the use of objects as function Arguments.

13 a) Develop a C++ program to illustrate the use of destructors overloading.

OR

b) Interpret about the operator type conversion.

14 a) Elucidate about single and multiple inheritance with example.

OR

b) Assess briefly about nesting of classes.

15 a) Categorize the types of polymorphism.

OR

b) Enumerate about file pointers.

Z-Z-Z END