

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)

**MSc DEGREE EXAMINATION DECEMBER 2018**  
(Second Semester)

Branch -**SOFTWARE SYSTEMS**  
(Five year integrated)

**OBJECT ORIENTED PROGRAMMING USING C++**

Time: Three Hours

Maximum: 75 Marks

**SECTION -A (30 Marks!)**

Answer. **ALL** questions

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

- 1 a Explain in details about advantages of OOP.  
OR  
b Discuss about predefined streams with example.
- 2 a Explain in details about inline function with example.  
OR  
b Describe characteristics of constructor and destructor.
- 3 a Examine rules for overloading operators.  
OR  
b Write down this pointer with example.
- 4 a Discuss about rules for virtual functions.  
OR  
b Elaborate command line arguments.
- 5 a What is class template? Explain.  
OR  
b Write down the principles of exception handling.

**SECTION -B (45 Marks)**

Answer any **THREE** questions

**ALL** questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Briefly explain about operators in C++ with examples.
- 7 Explain about copy constructor with example.
- 8 Write down the overloading binary operator with example.
- 9 Discuss about sequential read and write operations.
- 10 Explain declaring and initializing string objects with example.