

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch - MATHEMATICS WITH COMPUTER APPLICATIONS

C++ PROGRAMMING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x2 = 20)

- 1 What is object oriented programming?
- 2 Write a note on keywords and identifiers.
- 3 What are the three types of control structures?
- 4 What is return by reference?
- 5 State the general form of a class declaration.
- 6 Define i) Get data() ii) Put data ().
- 7 List the features for overloading binary operators.
- 8 Mention the common types of type conversions.
- 9 How will you define a derived class?
- 10 Give the syntax of multiple inheritance.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Explain the features of object oriented programming.
OR
b Explain the applications of oop.
- 12 a Describe manipulators.
OR
b Explain If...else statement with example.
- 13 a Write a short note on memory allocation for objects.
OR
b List and explain the special characteristics of friendly function.
- 14 a List and explain the -special characteristics of constructors.
OR
b Illustrate the concept of destructors.
- 15 a Describe the syntax of the single inheritance and explain.
OR
b Explain about hybrid inheritance.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Explain the concept of basic data types.
- 17 Discuss in detail operators in C++.
- 18 Explain the following (i) Nesting of member functions (ii) Private member functions (iii) Arrays within a class.
- 19 List and explain the rules for overloading operators.