PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BCom DEGREE EXAMINATION DECEMBER 2017
(Third Semester)

Branch - COMMERCE WITH COMPUTER APPLICATIONS

FUNDAMENTALS OF C & C++

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (10 x 2 = 20)

I What are the different data types in C?

What are identifiers?

Give the syntax for goto statement.

Write the syntax for switch statement.

What is the use of the keyword struct?

6 What are pointers?

7 Define object oriented programming.

8 How are object declared in C++?

9 List down the types of inheritance.

10 Define Abstract class.

SECTION - B (25 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

II a Write a note on logical and Bitwise operators in C with examples.

OR

b What are tokens? Explain.

12 a Give an account on the usage of recursive {unction with a suitabie program.

OR

b What is an array? Explain any one type with an example program.

13 a Write a C program to sw^{r}ap any two integers using pointers.

OR

b Briefly explain the syntax for structure creation and initialization.

14 a Outline the benefits of OOPs.

OR

b Illustrate the concept of constructor.

15 a Write a short note on abstract class.

OR

b Give an account on pure virtual functions.

SECTION - C (30 Marks)
Answer any THREE Questions
ALL Questions Carry EQUAL Marks (3 x 10 = 30)

16 Discuss in detail the general structure of a C program.

17 Explain any two control statements in C with suitable programs.

18 Write a program to store the information about students name, roll number and other details in a structure. Use the structure to prepare a mark list.

19 Write a C++ program to perform matrix manipulations using method overloading.