

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BCom DEGREE EXAMINATION MAY 2018
(Second Semester)

Branch – e-COMMERCE

FUNDAMENTALS OF C AND C++

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Write down 2 features of C language
- 2 What are keywords?
- 3 What is the use of break statement?
- 4 Define the term 'string'.
- 5 What is the use of the address of operator?
- 6 What is a pointer variable?
- 7 What are the C++ Tokens?
- 8 What are the expression types in C++?
- 9 What is multiple inheritance?
- 10 What is an abstract class?

SECTION - B (25 Marks)

Answer ALL Questions

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

- 11 a Briefly explain the structure of C program.
OR
b Describe any five operators in C.
- 12 a Write a short note on the following loops in C language : (i) while (ii) do-while
OR
b List out the difference between 'pass-by-value' and 'pass-by-reference'.
- 13 a How are structure members accessed in C language? Give examples.
OR
b State any 5 string library functions.
- 14 a Explain the concept of constructor overloading with example.
OR
b Write a short note on classes and objects.
- 15 a What is single Inheritance in C++? Give an example.
OR
b Give an account of virtual functions with example.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Describe C Datatypes in detail.
- 17 Explain any 5 'C' control structures with suitable examples.
- 18 Give a detailed account on structures and union in C language.
- 19 Write down the OOPs concepts in detail.
- 20 What is a virtual base class? What is the need for it? Explain with a program