

**BCom DEGREE EXAMINATION DECEMBER 191 f**  
(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 What are identifiers?
- 2 Define constants.
- 3 What are called as control structures?
- 4 Define functions.
- 5 What is an address operator?
- 6 What is structure in C?
- 7 Define private access specifier.
- 8 What is overloading?
- 9 What is inheritance?
- 10 Define polymorphism.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

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

- 11 a Give short notes on variables used in C.  
OR  
b List down the various data types in C.
- 12 a Compare and explain about while and do—while.  
OR  
b Write about recursion, in short.
- 13 a Write about unions, in brief.  
OR  
b Give a note on initialization.
- 14 a Write about object in C++.  
OR  
b What are destructors?
- 15 a Describe about single inheritance with an example.  
OR  
b Depict the importance of hierarchical inheritance.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Give a detailed account on operators and expressions in C language.
- 17 Write the importance of arrays and strings.
- 18 Compare structure and union in a detailed way.
- 19 Write about the basic concepts of OOP.
- 20 Give a note on pure virtual functions in a detailed manner.