

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

B.Com DEGREE EXAMINATION DECEMBER 2023
(Third Semester)

Common to Branches - COMMERCE(CA) / COMMERCE (e- COMMERCE)

FUNDAMENTALS OF C AND C++

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Each instruction in C program is terminated by_____.
(i) dot (.) (ii) comma (,)
(iii) semi-colon (;) (iv) curly brace ({})
- 2 The string always ends with_____.
(i) \0 character (ii) \character
(iii) 0\ character (iv) 0 character
- 3 The structure combines variables of_____.
(i) similar data types. (ii) dissimilar data type
(iii) unsigned data types. (iv) signed data types.
- 4 _____ is the symbol that precedes the destructor.
(i) * (ii) ~
(iii) & (iv) @
- 5 The class from which another class inherits the property is called _____ class.
(i) derived (ii) sub
(iii) subordinate (iv) base

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain the basic structure of C program.
OR
b Classify the constants in C.
- 7 a Demonstrate the switch statement.
OR
b Write a C program to find the factorial of a given number.
- 8 a Illustrate the concept of pointers.
OR
b Demonstrate the concept of union in C.

Cont...

- 9 a Summarize the benefits of object-oriented programming.
OR
b Write a C++ program to illustrate constructor.
- 10 a Explain hierarchical inheritance with example.
OR
b Explain virtual functions with example.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Summarize the data types in C.
OR
b Discuss the operators and expressions.
- 12 a Classify the different form of *if* statement.
OR
b Compare call by value and call by reference.
- 13 a Explain any six string functions.
OR
b Demonstrate the concept of Structure in C.
- 14 a Explain the basic concept of object-oriented programming.
OR
b Discuss function overloading with example.
- 15 a Explain virtual base classes with example.
OR
b Compare multiple and multilevel inheritance.

Z-Z-Z

END