

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCom (CA) DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch - COMMERCE WITH COMPUTER APPLICATIONS

OBJECT ORIENTED PROGRAMMING WITH C++

Time : Three Hours

Maximum : 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 The preprocessor directive always ends with
(i) a comma (ii) a semicolon
(iii) & (iv) neither a semicolon nor a comma
- 2 The main() function is always
(i) a called function (ii) a calling function
(iii) a recursive function (iv) used at the end of the program
- 3 Which of the following is (are) invalid character constants?
(i) 'a' (ii) 'b'
(iii) '\h' (iv) '\n'
The end of sting is recognized by
(i) the null character (ii) the new line character
(iii) the # sign (iv) the / sign
- 5 If both a and b have the value 2, then the statement a*=b+4.
(i) gives an error message (ii) a is assigned the value 12
(iii) a is assigned the value 8 (iv) a is assigned the value 13
- 6 The two statements that can be used to change the flow of control are:
(i) if and switch (ii) if and while
(iii) switch and do-while (iv) break and continue
- 7 The comment statement in C++ begins with
(i) * (ii) //
(iii) \\
(iv) @*
- 8 The string data type is an extension of the _____ data type.
(i) character (ii) double
(iii) letter (iv) long
- 9 Which of the following is a C++ class?
(i) » (ii) read()
(iii) Cin (iv) iostream
- 10 Which of the following loops always processes its instructions atleast once?
(i) do-while (ii) for
(iii) while (iv) break

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 11 a Explain the concept of data encapsulation.

- 11 b Share the structure of a C++ program.
- 12 a Explain the data types supported in a C++program.
OR
b Explain the Inline functions.
- 13 a Illustrate the concept of Data Hiding.
OR
b Explain the functions of Copy Constructor.
- 14 a Prepare the rules for Overloading operators.
OR
b Explain the benefits of Inheritance.
- 15 a Explain the need for Virtual functions.
OR
b Determine the methodology for opening and closing a file.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Enumerate the merits and demerits of Object Oriented Programming.
- 17 Formulate a Nested If.. Else statement and explain with examples.
- 18 Develop the methodology for accessing class members.
- 19 Compare Hierarchical Inheritance with Hybrid Inheritance.
- 20 Analyze the data file operations.

Z-Z-Z

END