

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch –SOFTWARE SYSTEMS (Five year integrated)

OBJECT ORIENTED PROGRAMMING USING C++

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

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

1. _____ is the function from which the execution of C++ program starts.
(i) main() (ii) new()
(iii) function() (iv) start()
2. C++ was invented by _____.
(i) Brian Kernighan (ii) Bjarne Stroustrup
(iii) Dennis Ritchie (iv) Ken Thompson
3. _____ function is not a member of a class.
(i) Const (ii) Friend
(iii) Static (iv) Virtual
4. Arrays are declared in C++ as _____.
(i) array a[10] (ii) array a
(iii) int a[10] (iv) int a
5. _____ constructor is an incorrect constructor type.
(i) Copy (ii) Default
(iii) Friend (iv) Parameterized
6. Mechanism of deriving a class from another derived class is known as _____.
(i) Message Passing (ii) Multilevel Inheritance
(iii) Polymorphism (iv) Single Inheritance
7. Usually a pure virtual function _____.
(i) has complete function body (ii) is defined only in derived class
(iii) will be called only to delete an object (iv) will never be called
8. _____ concept are used for late binding implementation.
(i) Constant Functions (ii) Operator Functions
(iii) Static Functions (iv) Virtual Functions
9. _____ syntax is used to read the single character to console in the C++ language.
(i) get(ch) (ii) Getline vh()
(iii) Read.ch() (iv) Scanf(ch)
10. Exception handling is targeted at _____ errors.
(i) Compile time (ii) Logical
(iii) All time (iv) Run-time

Cont...

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 5 = 25)

- 11 a Explain the features of OOP.
OR
b Discuss Input stream and Output stream.
- 12 a What is meant by member function in C++? Elucidate.
OR
b Explain Class within class with relevant program.
- 13 a Explain inline functions in C++.
OR
b With relevant C++ program explain multilevel inheritance.
- 14 a What is operator overloading? Discuss any three rules.
OR
b Write short note on Abstract class.
- 15 a Write a note on function template.
OR
b Discuss binary file operations in C++.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 8 = 40)

Question no. 16 is compulsory

- 16 What is meant by array of pointers. Explain with example.
- 17 a Enumerate array of class objects with relevant C++ program.
OR
b How to access the member of a class? Discuss.
- 18 a What is meant by copy constructor. Explain with suitable C++ program.
OR
b Elucidate friend function with example.
- 19 a Write about function overloading with relevant C++ program.
OR
b Explicate Virtual function with example.
- 20 a How are exceptions handled in C++? Explicate.
OR
b Describe the steps with relevant C++ program to read and write from a file.

Z-Z-Z

END