

(6 pages)

Reg. No. :

Code No. : 21122 Sub. Code : JMPH 41

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2018.

Fourth Semester

Physics–Main

COMPUTER PROGRAMMING IN C++

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. _____ function reduce the cost of call and return.

(a) friend (b) virtual
(c) inline (d) member

2. The C in and C out functions require the header file to include_____.

(a) iostream.h
(b) stdio.h
(c) iomanip.h
(d) none of the above

3. The _____ function of a class represents the behavior of the class.

(a) member (b) global
(c) receipt (d) payment

4. A non-member function that can access the private data of class is known as _____.

(a) friend function (b) static function
(c) member function (d) library function

5. Destructors can be _____.

(a) overloaded
(b) of any data type
(c) able to return result
(d) none of the above



6. The process of creating a new class from an existing class is called _____.
- (a) encapsulation (b) polymorphism
(c) inheritance (d) none
7. The addition operator is used to overload an _____.
- (a) class (b) function
(c) operator (d) object
8. A class can inherit the attributes of two or more classes is known as
- (a) inheritance
(b) function
(c) multiple inheritance
(d) linking
9. The _____ binary means the address of the functions are determined run time.
- (a) static (b) dynamic
(c) general (d) none of the above
10. Template class is also called as _____.
- (a) container class (b) generic class
(c) virtual class (d) base class

Page 3 **Code No. : 21122**

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b),
each answer should not exceed 250 words.

11. (a) Explain constants in a C++ program with example.

Or

- (b) What are the data types in C++? Explain.

12. (a) Write a program to return more than one values from function use call by reference method.

Or

- (b) Write a program to implement function overloading.

13. (a) Write down the constructors in details.

Or

- (b) Explain copy constructor.

14. (a) Write down the binary operator over loading.

Or

- (b) Explain single inheritance.

Page 4 **Code No. : 21122**
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15. (a) Write a program to open a file in write and read mode.

Or

- (b) Discuss the stream classes for unformatted I/O operations.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 600 words.

16. (a) With suitable example, explain expressions in C++.

Or

- (b) Explain the uses of different categories of operators in C++ with suitable example.

17. (a) Write a program to find the biggest object of two different classes using friend function.

Or

- (b) Discuss about virtual functions.

18. (a) Define class. Explain nesting of member functions.

Or

- (b) Explain the parameterized constructor with example.

Page 5 Code No. : 21122

19. (a) Write a program to implement unary operator overloading.

Or

- (b) With suitable example. Explain multilevel inheritance.

20. (a) Explain various file manipulators.

Or

- (b) Write about formatted I/O operations.

Page 6 Code No. : 21122

