23SI-BCAP-MA-03-05001

Seat No. _____

BACHELOR OF COMPUTER APPLICATION Examination

BCA Semester - 3 DECEMBER 2024 (Regular) DECEMBER - 2024

CS-15: C++ AND OBJECT ORIENTED PROGRAMMING

Faculty Code : 003

Subject Code : 23SI-BCAP-MA-03-05001

Time : 2 Hours] **[Total Marks : 50**

Q.1 (A) Answer the following. 3
1. cin is inbuilt object of ____ class.
2. _____ compiler directive is useful to declare symbolic constant.
3. _____ is an insertion operator.

Q.1 (B) Explain while with example. 2

Q.1 (C) Explain memory management operators with example. 5

OR

Q.1 (A) Answer the following. 3
1. List out conditional statements.
2. Who is the founder of the C++?
3. List out looping statements.

Q.1 (B) Explain scope resolution operator with example. 2

Q.1 (C) Explain function overloading with example. 5

Q.2 (A) Answer the following. 3
1. ____ members of the class cannot be access from outside the class.
2. What is initialization?
3. What is method?

Q.2 (B) Explain static data members with example. 2

Q.2 (C) Explain friend function with example. 5

OR

Q.2 (A) Answer the following. 3
1. ____ constructor automatically called whenever we create an object.
2. ____ operator is useful to declare pointer to member.
3. Constructors returns ___ type of value.

Q.2 (B) Explain array within a class with example. 2

Q.2 (C) List out types of constructor? Explain copy constructor with example. 5

Q.3 (A) Answer the following. 3
1. _____ is useful to convert class type to basic type.
2. Which members are not inherited in child class?
3. Define intermediate base class.

Q.3 (B) Explain basic to class type conversion with example. 2

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Q.3 (C) Write rules of operator overloading. 5

OR

Q.3 (A) Answer the following. 3
1. ___ type of inheritance contains more than one parent class.
2. A binary operator overloaded through friend function takes ____ number of arguments.
3. How many specifiers are used to derive a class?

Q.3 (B) Explain containership. 2

Q.3 (C) What is inheritance? Explain types of inheritance with example. 5

Q.4 (A) Answer the following. 3
1. Write full form of RTTI.
2. Write syntax of getline ( ).
3. ____ is the bit-field of ios::left.

Q.4 (B) Explain this pointer with example. 2

Q.4 (C) Write short note on dynamic binding. 5

OR

Q.4 (A) Answer the following. 3
1. ___ is the equivalent manipulator of width () ios class function.
2. ____ is the header file of manipulators.
3. ____ is the bit-field of ios::scientific.

Q.4 (B) Explain get() and put(). 2

Q.4 (C) What is stream? Explain C++ stream classes. 5

Q.5 (A) Answer the following. 3
1. Write use of try block.
2. Write full form of STL.
3. Define container.

Q.5 (B) Explain command line argument 2

Q.5 (C) Explain read () and write () with example. 5

OR

Q.5 (A) Answer the following. 3
1. What is exception?
2. Template is useful to create ___ programs.
3. Write syntax of fseekg().

Q.5 (B) Explain iterator. 2

Q.5 (C) Write short note on template. 5

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