

22/130-C

B.C.A. (Second Semester)

Examination, 2022

BCA-201

Paper - First

(Object Modeling and C++ Programming)

Time : Three Hours / [Maximum Marks : 70

Note : Attempt questions from **all** sections as per instructions.

Section-A

(Very short Answer Type Questions)

Note : Attempt **all** parts of this question. Give answer of each part in about 50 words.

$1\frac{1}{2} \times 10 = 15$

1. Define the following terms with example.
 - (i) Destructor
 - (ii) Dangling Pointer.
 - (iii) Arrays.

P.T.O.

(2)

- (iv) Static class.
- (v) Friend function
- (vi) Call by value.
- (vii) Polymorphism.
- (viii) Pure virtual function.
- (ix) Inheritance.
- (x) Generalization.

Section-B

(Short Answer Type Questions)

Note : Attempt **all** questions. Give answer of each question in about 200 words.

$7 \times 5 = 35$

2. - What is an object model? What are the other OMT models?

OR

Explain the objectives of object modeling.

3. Differentiate between dynamic and functional modeling.

OR

Explain the role of class, object data member, function and access specifier in C++ with an example.

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(3)

4. What is the use of static member and static function? Explain it with an example of each.

OR

Write a program in C++ to find the product of digits of a given number.

5. What is the difference between early and late binding? Explain with an example of each.

OR

~ Differentiate between virtual and pure virtual functions.

6. Write a program to overload "+" operator.

OR

How files are handled in C++? Write a program to perform read/ write operations in file handling.

Section-C

(Long Answer Type Questions)

Note : Attempt any **two** questions. Give answer of each question in about 500 words.

10x2=20

P.T.O.

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(4)

7. ~ Bring out the relationship between Base Classes and Derived Classes and also explain the working of constructors and Destructors in derived classes.
- ~ 8. Describe in details the **two** methods of overloading operators.
9. What is modeling concepts? Explain write call's **model** of windowing system.
- ~ 10. What is **multiple inheritance**? Explain the kinds of multiple **Inheritance**.
11. **Explain nested state and Nested state diagrams with example.**

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