

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2013 and 2019 Batch) (Sem.-1)
OBJECT ORIENTED PROGRAMMING IN C++

Subject Code : MCA-102

M.Code : 26043

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TWENTY marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

1. What is OOP paradigm? Discuss in detail the characteristics of Object-oriented languages.
2. What are the various data types available in C++? Explain giving suitable examples.

SECTION-B

3. Define Functions. Discuss the various types of functions available in C++. Explain the concept of recursive functions with an example.
4. What is an Array? How is an array defined in C++? Discuss passing array as an argument to a function with a suitable example.

SECTION-C

5. What are constructors and destructors? What are the rule governing the use of constructors and destructors? Explain.
6. Define Inheritance. What are the various types of inheritance? Discuss each giving suitable examples.

SECTION-D

7. What is a virtual function? What is the use of virtual functions? When do we make a virtual function 'pure'? What are the implications of making a function a pure virtual function?
8. What is a File? Discuss the various functions and file operations in C++ with examples.

SECTION-E

9. Answer briefly :

- a. Differentiate between Class and Object.
- b. What is conditional expression?
- c. What is the difference between break and continue statements?
- d. What do you mean by function prototyping?
- e. What is the difference between Structure and Union?
- f. What is operator overloading?
- g. What is an abstract base class?
- h. Define Inline functions.
- i. What is the role of this pointer?
- j. How exceptions are handled in C++?

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