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MCS-502

Object-Oriented Programming through C++

Master of Computer Application (MCA-20) 1st Semester, Examination June 2022

Time : 2 Hours

Max. Marks:80

Note : This paper is of eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

(2 x 20=40)

- Q.1 Explain the features of Object Oriented Programming.
- Q.2 Explain the characteristics of objective-oriented languages?
- Q.3 What is array? Explain the different types of array with example.

P.T.O.

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- Q.4 What is Polymorphism? Explain the types of polymorphism with example.
- Q.5 Explain the difference between virtual base classes and abstract classes with the help of example.

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only.

(4 x 10=40)

- Q.1 Explain the static data members and static member functions with example.
- Q.2 Explain the basic data types in C++ with examples.
- Q.3 What is the basic difference between structured programming model and objective oriented programming model?
- Q.4 What is destructor? Explain with example.

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- Q.5 What is the difference between Structure and Union?
- Q.6 What is exception? Explain exception handling with example.
- Q.7 What is the difference between a class and an object?
- Q.8 What is inheritance? Explain the types of inheritance.
