[Total No. of Questions - 10] [Total No. of Printed Pages - 3] (2063)

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M.B.A. 3rd Semester Examination Object Oriented Programming, (C++/Visual C++)

ITEM-02

Time: 3 Hours Max. Marks: 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary continuation sheet will be issued.

Note: Attempt five questions in all. Select one question from each section.

SECTION - A

1. (a) What is object oriented programming? How is it different from procedure-oriented programming? List advantages of object oriented programming over procedure-oriented language.

(6)

(b) What is dynamic binding? Explain with example. What are its advantages?

(6)

2. (a) What is data encapsulation and what are its advantages in programming? Are data encapsulation and data hiding same or different? Justify with example.

(6)

(b) Differentiate between overloading and overriding? Why do we need each of these? Give examples.

(6)

SECTION - B

3. (a) Write a program to swap two integer values by both using call by value and call by reference? What are the advantages of passing references rather than values?

(6)

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(b) What is a pointer? Explain the difference between the address stored in a pointer and the value at that address. What does the following statement do? (i) *ptr+=1;

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(6)

- (ii) ++*ptr;
- (iii) (*ptr)++;
- (iv) *ptr++;

4. (a) What are inline functions? What is the difference between inline function and function called through function call? Give example of each.

(6)

(b) Write a C++ program using switch-case structure to display the names of days of a week based on numeric input (for example if input no is 1 it displays 'Monday' and if 2 it displays 'Tuesday' etc). What is the use of default case in this structure?

(6)

SECTION - C

5. (a) Explain why do we need to use constructors and destructors? Explain a copy constructor with an example.

(6)

(b) Write a program to declare a class 'employee', consisting of data members emp no, and emp name. Write the member functions accept() to accept and display() to display the data for 5 employees.

(6)

6. (a) What is operator overloading? Illustrate operator overloading concept to concatenate strings.

(6)