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Sixth Semester B.E. Degree Examination, May/June 2010 Object Oriented Programming using C++

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

1 a. Distinguish between procedure oriented programming and object oriented programming.

(06 Marks)

- b. Enumerate the main features of OOP.
- c. Define the following, give an example for each.i) Tokes ii) keywords iii) identifiers

iv) variables.

(06 Marks) (08 Marks)

2 a. Find errors, if any, in the following C++ statements and write correct statements.

i) if $x < y \min = x$

else min = y;

ii) # include <iostream>;
 using namespace standard :

int main
{ // prints "Hello, world!" :
 cout << "Hello, world!\n"
 return 0;</pre>

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(06 Marks)

- b. What are user defined data types? Discuss each data type with its general form. (08 Marks)
- c. Write a C++ program to input an integer value from the keyboard and display on screen "WELL DONE" that many times. (06 Marks)
- 3 a. What is an inline function? State the general form of the inline function, explain inline function, with an example. Discuss the situations, where, inline functions many not work.
 - b. Find permutation of k items taken from a set of n items. Permutation equation is P(n, k) = n!/(n-k)!. Write a function called fact() to find factorial and use the same to find permutation. (10 Marks)
- 4 a. What is a class? How does class accomplish data hiding? Give general form of a class, definition of the member functions defined in the class and creation of an object. (08 Marks)

b. Create a class with member functions that read two integers, find largest among them and display the largest integer. Write a main program to test the class. (08 Marks)

c. What is a static member function? How the static member functions can be accessed within the main function? (04 Marks)

PART - B

- 5 a. What is a constructor? How to declare a constructor in a class and create an object using the constructor? (06 Marks)
 - b. Mention the special characteristics of the constructor functions.

(06 Marks)

c. Explain the copy constructor, with an example.

(08 Marks)