Computer Programming.

FESemI

May 2013 07 | 06 | 2013

ATKT P3-upq-Feb.-13KL-331 A4E

C. P. I

Con. 6925-13.

(OLD COURSE)

GS-5076

(3 Hours)

[Total Marks: 100

N.B. :(1) Q. No. 1 is compulsory.

(2) Attempt any four questions out of remaining six questions.

1. (a) What is object oriented programming? List and explain the basic concepts of it. 8

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(b) Find the o/p of the following:—

(i) main ()
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int i = 1, j = 1;
for (; ;)
{
    if (i > 5)
        break;
else j + = i;
    cout < < j;
    i + = j;
}</pre>
```

(ii) main ()

{

 int i = 5, j = 2;
 junk (& i, & j);
 printf (" \n % d % d ", i, j);
}

junk (int * i, int * j)

{

 *i = *i * * i;
 *j = *j * * j;
}

TURN OVER

 (c) Differentiate between structure and union. (d) How to declare one dimensional and two dimensional array in C++. 5 			
2 3 4 5 6 7 8 9 10 3. (a) Explain bitwise operators in C++ with the help of example. (b) What is recursion? Write a recursive program to find factorial of a given number. (c) Differentiate between structure and union. (d) How to declare one dimensional and two dimensional array in C++. 4. (a) Write a program to find largest of three numbers using conditional operator. (b) What is operator overloading? Explain advantages of it. (c) Write a program to demonstrate inline function. Discuss its advantages and disadvantages. 5. (a) What is the scope and life of automatic storage class. (b) Write a program to display the transpose of a matrix. (c) Explain the concept of parameterized constructor. (d) Explain the concept of dynamic binding. 5. (a) Explain call by reference with one programming example. (b) Define a structure consisting of following elements: Student Roll No, Student Name, Student Age, Student date_of_admission. Write a program to find area of square and circle using operator overloading. (d) Explain inheritance visibility. 7. (a) What is the difference between declaration and definition. (b) Write a C++ program to implement multilevel inheritance. (c) What is function overriding? Explain with example. 5	(b)	Explain conditional operators? and: with the help of example. Write a program to print Floyd's triangle using control structures (Number of	5
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