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Total number of printed pages – 2

B. Tech
BECS 2207

Third Semester Back Examination – 2014

OBJECT ORIENTED PROGRAMMING

BRANCH (S) : CSE, IT

QUESTION CODE : L 319

Full Marks – 70

Time : 3 Hours



Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions : 2×10
 - (a) 'cout' is an object of which class ?
 - (b) What is the use of scope resolution operator ?
 - (c) What is abstraction and how it is implemented in C++ ?
 - (d) Which operator is used to access the class member with respect to a pointer ?
 - (e) Differentiate between mutable data member and static data member.
 - (f) What do you mean by memory leak ?
 - (g) What are constructors ? What are their utilities ?
 - (h) List the advantages of inheritance ?
 - (i) What are the requirements of class templates ? How they are created ?
 - (j) What are the limitations of exception handling ?
2.
 - (a) What is typecasting ? Differentiate between explicit and implicit conversions with example. 5
 - (b) Write a C++ function that take input as odd positive integer n less than 100 and return its sum as output. 5
3.
 - (a) Why do we declare a member of class as static ? How does it accomplish data hiding ? 5
 - (b) With an example explain how exception can be rethrown. 5

P.T.O.

4. Discuss the use of different constructor and destructors of OOP in C++ with example. 10
5. (a) Write a program in C++ to overload a function template. 5
(b) What is generic catch block ? What are the restrictions while using a generic catch block ? 5
6. (a) Write a C++ code to overload subscript [] operator. 5
(b) What are the differences between structures and classes in C++ ? 5
7. (a) What are the differences among public, private and protected members of a class ? 5
(b) Explain the use of constructors in C++ with example. 5
8. Write notes on : 5×2
(a) Virtual destructor
(b) Dynamic polymorphism.
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