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Question Paper Code: 33804

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Third Semester

Information Technology

01UIT304 - OBJECT ORIENTED PROGRAMMING

(Common to Computer Science and Engineering)

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. What is object?
2. Define data encapsulation and polymorphism.
3. What is a parameterized constructor?
4. What are default arguments?
5. What is an Exception?
6. Define Template.
7. What is virtual function?
8. Define hierarchical inheritance.
9. How do you classify ios class?
10. What do you mean by sequential access?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about the basic concepts of object oriented programming. (16)

Or

- (b) Discuss about constant and volatile functions (16)

12. (a) (i) What is constructor? Explain the types of constructor with a suitable example. (10)
- (ii) How the objects are initialized dynamically and explain dynamic constructors. (6)

Or

- (b) (i) Write a program to overload = operator. Assign values of data members of one object to another object of the same type. (6)
- (ii) Write about various Type conversions and Explicit constructor in detail with example programs. (10)
13. (a) What is Template? Explain function and class template? Write the syntax and example program for function and class template. (16)

Or

- (b) Explain about the exception handling mechanism in detail. (16)
14. (a) Write a C++ program involving appropriate type of inheritance which will inherit two classes triangle and rectangle from polygon class. Use member functions for entering appropriate parameters like width, height etc. and to calculate the area of triangle and rectangle. (16)

Or

- (b) Write a C++ program to demonstrate the problem available in Multiple Inheritance. Also illustrate how it can be resolved. (16)
15. (a) (i) Explain the roles of *seekg ()*, *seekp ()*, *tellg ()*, *tellp ()* functions in the process of random access in a binary file. (10)
- (ii) How will you open a text file and read from it? Explain briefly. (6)

Or

- (b) What is standard template library? Write the types of STL? Write an example program for each STL types. (16)
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