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Question Paper Code: 33804

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

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 do you mean by Data Abstraction?
2. Define polymorphism with an example.
3. How does a constructor differ from normal functions?
4. What is a default constructor?
5. What is generic programming?
6. Give simple example program for exception handling.
7. Why do we need RTTI? Suggest some cases where we need to use RTTI.
8. Define abstract class.
9. What are the manipulators available in C++?
10. Name the different modes in which file can be opened in C++.

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Describe the concepts of Object oriented programming with examples. (8)
(ii) Explain about function overloading with examples. (8)

Or

- (b) Discuss about constant and volatile functions (16)
12. (a) (i) Describe about Default and Copy Constructor with an example code. (8)
- (ii) Write a C++ program to add two complex numbers using parameterized constructor. (8)

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) (i) What is meant by exceptions? How an exception is handled in C++? Explain with the help of an example. (8)
- (ii) How are template functions overloaded? Explain with a suitable example. (8)

Or

- (b) How are template functions overloaded? Explain with a suitable example. (16)
14. (a) What is multiple inheritance? Discuss the syntax and rules of multiple inheritance in C++. How can you pass parameters to the constructors of base classes in multiple inheritance? Explain with suitable example. (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) Write a program which copies the contents of one file to a new file by removing unnecessary space between words. (8)
- (ii) Explain the use of any five manipulators with an example. (8)

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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