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Question Paper Code: 59271

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

Open elective

Civil Engineering

15UCS971– PROGRAMMING WITH C++

(Common to ECE, EEE, EIE, Mechanical, IT, Chemical)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5x 1 = 5 Marks)

1. ----- is the standard input stream. CO1- R
(a) cerr (b) cout (c) cin (d) clog
2. What does your class can hold? CO2- R
(a) data (b) functions (c) both a & b (d) none of the mentioned
3. Which of these operators can be overloaded? CO3- R
(a) Scope resolution (b) size of
(c) new operator (d) Conditional operator
4. If a _____ is defined in the base class, it need not be CO2- R
necessarily redefined in the derived class.
(a) member function (b) virtual function (c) static function (d) real function
5. An exception is caused by a ----- CO3- R
(a) Syntactical error (b) logical error (c) Run-time error (d) Semantic error

PART – B (5 x 3= 15 Marks)

6. Define reference variable in C++. CO1-U
7. What are the different kinds of polymorphism? CO2- R

8. Write down the syntax of assignment operator overloading. CO3- R
9. List out the rules for Pure virtual functions. CO4- R
10. Draw a schematic diagram for throwing an exception outside the try block. . CO5- R

PART – C (5 x 16= 80Marks)

11. (a) (i) Explain Structure of C++ Program in detail. CO1- U (8)
(ii) Explain ternary operator & logical operators with an example. CO1- U (8)
Or
(b) (i) Write short notes on operators in C++. CO1- U (8)
(ii) Write short notes on switch, break & continue. CO1- U (8)
12. (a) Write short notes on classes, objects and polymorphism in C++.. CO2- U (16)
Or
(b) Write a C++ program to perform inline & friend function. CO2- U (16)
13. (a) Write a C++ program to print student detail using parameterized constructor. CO3- App (16)
Or
(b) (i) Write a C++ program for addition and subtraction of complex number using binary operator overloading with friends. CO3- App (8)
(ii) Explain in detail about assignment operator overloading. CO3- U (8)
14. (a) (i) Write a C++ program to perform Protectedly inherited derived class. CO4- App (8)
(ii) Explain in detail about Multiple Inheritance CO4- U (8)
Or
(b) (i) Explain in detail about pointers to objects with an example. CO4- U (8)
(ii) Write a C++ program to perform virtual functions. CO4- App (8)
15. (a) (i) Discuss manipulators in detail. CO5- U (10)
(ii) Write a C++ program to display the student mark using width, precision, fill, setf functions CO5- U (6)
Or
(b) Describe the various methods of performing formatted & Unformatted stream I/O operations. CO5-U (16)