

Code : 15EC63C

Register
Number

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VI Semester Diploma Examination, Oct./Nov.-2019

OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours]

[Max. Marks : 100

- Instructions :** (i) Answer any **six** questions from Part – A. ($5 \times 6 = 30$ marks)
(ii) Answer any **seven** questions from Part – B. ($7 \times 10 = 70$ marks)

PART – A

1. Write a program to calculate area of a rectangle and display it. 5
2. Write a program to read the value of a, b and c and display the value of x, where $x = a/b - c$ 5
3. Write a program to display the following output using for loops : 5

1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
4. Explain friend function and friend class. 5
5. Define class and object. Give an example. 5
6. List rules for overloading operators. 5
7. What is Polymorphism ? How is polymorphism implemented in C++ ? 5
8. Write a note on structure and union. 5
9. Write a note on virtual function. 5

PART – B

10. (a) Explain FOR AND WHILE LOOP with SYNTAX. 5
(b) Write a note on identifiers or variables in C++. 5
11. Describe declaration and initialisation of one & two dimensional arrays with syntax and example. 10
12. (a) Explain hybrid inheritance. 5
(b) Discuss the limitation of structure. 5
13. Explain the keywords private, public and protected. Discuss memory allocation for objects. 10
14. (a) Explain constructors and destructors. 6
(b) Write a note on JAVA. 4
15. Write a program to show overloading of any one unary and any one binary operator. 10
16. (a) Explain break and continue statements. 5
(b) Write a note on arrays. 5
17. Define Inheritance. Explain different forms of inheritance with suitable diagram. 10
18. What is a virtual function ? List rules for virtual functions. 10
19. (a) Explain inline functions. 5
(b) Summarize rules for operator overloading. 5

BETA CONSOLE

