B. Voc. DEGREE EXAMINATION, OCTOBER, 2016

FIRST SEMESTER- CORE COURSE (SOFTWARE DEVELOPMENT)

VSD1S03TB - OBJECT ORIENTED PROGRAMMING IN C++

Time: Three Hours   **Maximum: 80 Marks**

PART A

Answer all questions (1 mark each)

1. Define Object
2. What do you mean by data abstraction?
3. What do you mean by function prototype?
4. What is a Scope Resolution Operator?
5. Find the error and correct the statement **long float x;**
6. Name the visibility mode that makes a private member inheritable.
7. Write an example for embedded statement.
8. Write the statement **x=x+10;** using compound assignment operator.
9. Write a destructor function for class named Sample.
10. Write the statement that define an object OBJ2 and at the same time initialize it to the values of object OBJ2 using copy constructor.

(10 x 1 = 10)

Part B

II. Answer any seven of the following in one or two sentences (2 marks each)

11. What do you mean by multiple inheritance? Give the syntax
12. Explain the advantages and disadvantages of inline functions
13. Explain C++ class with an example
14. What are new and delete operators in C++
15. What is an abstract base class?
16. What is an operator function? Describe the syntax for an operator function

17. List all combinations of basic data type **int** with modifiers and give the size in bytes for each.

18. What do you mean by function overloading?

19. Explain the uses default arguments.

20. What are pointers? Write an example for declaring and initializing pointers.

21. Describe with examples the uses of enumeration data types.

22. Write the characteristics of constructor functions.

(8×2=16)

Part C

III. Answer any five of the following in 50 words (6 marks each)

23. Describe the use of static data members and static member function in C++ with an example

24. Explain the basic concepts of OOP Language

25. Explain the use of *this* pointer with an example

26. How can compile tile polymorphism achieved in C++

27. List the points to be remembered while overloading operators.

28. List the operators that can and that cannot be overloaded

29. Write a program to implement single inheritance

30. Explain the different types of constructors used in C++.

31. Write a program to show the different pointer arithmetic operations.

(6×4=24)

Part D

IV. Answer any two of the following (15 marks each)

32. What is inheritance? Which are the different types of inheritance? Write a program to illustrate multilevel inheritance in C++

33. Write a program to overload + operator as concatenating operator with strings

34. What are friend functions? Explain with an example.

35. Write a program illustrating the use of multiple constructors in a class.

(2 x 15 = 30)