

Roll No. \_\_\_\_\_

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**SVS -N-327 B-18**  
**B.Sc. Vth Semester Degree Examination**  
**COMPUTER SCIENCE**  
**OOPs with C++**  
**Paper - 502**  
**(New)**

Time : 3 Hours

Maximum Marks : 80

**SECTION -A**

**I. Answer the following questions.**

**(15×1=15)**

1. What is object?
2. Define encapsulation.
3. List the OOPs languages.
4. What is the use of insertion and extraction Operator?
5. List the not overloaded Operator.
6. What is the use of manipulator?
7. Mention any two stream related header files used in C++ for I-O operation..
8. What is function prototyping.
9. Define abstract class.
10. What do you mean by inline function?
11. Mention the various member access specifiers.
12. What is nesting of member function?
13. Define polymorphism.
14. How the reusability of classes is implemented in C++.
15. What do you mean by message passing?

**SECTION - B**

**II. Answer any FIVE questions.**

**(5×5=25)**

16. Enumerate difference between POP and OOP.
17. What is scope resolution operator? Write C++ program to illustrate the scope resolution operator.
18. What is a class? How does it differ from a C++ struct.
19. Write C++ program to find the smallest of three numbers using class Concept.
20. Give the Salient feature of constructor and destructor.
21. What is a friend function? What are the merit and demerits of friend functions?
22. What is an operator overloading? Mention the rules for operator over loading.

**SECTION - C**

**III. Answer any FOUR questions**

**(4×10=40)**

23. Explain the various features of object oriented programming with suitable example.
  24. What is inheritance? Explain single inheritance with suitable example.
  25. What is function overloading? Write C++ program to overload the max() function for finding the maximum of two quantities belongs to integer, float and double.
  26. Explain in details the mechanism of exceptional handling.
  27. What is template? Write C++ program to swap two quantity using function template.
  28. What do you mean by OOA and OOD? Explain various steps involved in OOA.
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