**Q.P. Code : 25134**

**Second Semester B.Voc.(IT) Degree Examination, May/June 2019**

*(CBCS Scheme)*

**Computer Science**

**Paper BVIT 204 — OBJECT ORIENTED PROGRAMMING CONCEPTS**

*Time : 3 Hours]* *[Max. Marks : 70*

*Instructions to Candidates : Answers all the Sections.*

SECTION – A

I. Answer any **TEN** questions : **(10 × 2 = 20)**

1. Differentiate between class and objects.
2. Write the list of non-parameterised manipulators.
3. What is function prototyping?
4. Mention the importance functions of C++.
5. What is a conversion function?
6. What is the use of scope resolution operator?
7. Mention any two advantages of operator overloading.
8. Give the difference between private, public and protected members.
9. What is 'this' pointer?
10. What do you mean by late binding?
11. List the 5 error handling functions.
12. What are the arguments used in command line arguments? Explain.

SECTION – B

II. Answer any **FIVE** questions : **(5 × 10 = 50)**

13. (a) Compare Procedure Oriented programming and object oriented programming. **(5)**

    (b) Explain memory management operators with examples. **(5)**

14. (a) Explain Default constructor. **(5)**

    (b) Explain constructor overloading. Illustrate with an example. **(5)**

15. (a) Explain what is operator overloading. Illustrate with an example. **(5)**

    (b) What are the different types of inheritance? Explain any two types with examples. **(5)**

16. (a) What do you mean by friend function? Give its features. **(5)**

    (b) Explain function templates with multiple parameters. Give an example. **(5)**

17. (a) Write a command line program to copy the contents of one file to another. **(5)**

    (b) What are the differences between the below and give appropriate examples.

    (i) Seekg ( ) and Seekp ( )

    (ii) tellg ( ) and tellp ( ) **(5)**

18. (a) Explain with an example opening a file with open ( ) function. What is the differences between opening a file with a constructor function and opening with Open ( ) function. **(5)**

    (b) What are inline functions? Discuss about their advantages, disadvantages and restrictions. **(5)**

19. (a) What are constructors and destructors? Explain how they differ from normal functions. **(5)**

    (b) Write a C++ program to demonstrate overloading a unary operator. **(5)**

20. (a) Describe any 3 types of inheritance with examples. **(5)**

    (b) Explain exception handling in C++. **(5)**

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