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Reg. No.

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**II Semester B.Voc. Degree Examination, September - 2021****INFORMATION TECHNOLOGY****Object Oriented Programming Concepts****(CBCS Scheme F+R)****Paper : 204****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

Answer all the sections.

**SECTION - A**Answer any **ten** questions. Each question carries **two** marks.**(10×2=20)**

1. Define Data encapsulation. How do we achieve it in OOP? **(1+1)**
2. Define class. Write the general syntax to create an object. **(1+1)**
3. What is Polymorphism? **(2)**
4. What is scope resolution operator? **(2)**
5. Write the general syntax of unary operator overloading. **(2)**
6. Define constructor. List the various types. **(1+1)**
7. Define Inheritance. **(2)**
8. What is the use of file pointer? **(2)**
9. What are templates? **(2)**
10. Define stream. **(2)**
11. What is the purpose of Abstract class? **(2)**
12. Explain Seekg( ) and SeekP( ) functions. **(2)**

**SECTION - B**Answer any **Five** of the following.**(5×10=50)**

13. a. Explain the characteristics of OOP. **(5)**  
b. Explain function overloading with an example. **(5)**
14. a. What is friend function? Explain with relevant example. **(5)**  
b. Explain all datatypes in C++ **(5)**

**[P.T.O.]**



15. a. Describe types of constructors with general syntax. (5)  
b. What are access specifiers used for? Explain private and protected access specifiers. (5)
16. a. Write a program to implement the destructors. (5)  
b. What are default arguments? How are they passed to functions? (5)
17. a. Explain different types of polymorphism. (5)  
b. Write a program to illustrate the use of object arrays. (5)
18. a. Explain any three types of Inheritance. (5)  
b. Explain how exception handling is carried in C++? (5)
19. a. Explain function template with its general form. (5)  
b. Write a program to illustrate the use of virtual functions. (5)
20. a. Explain the concept of command line arguments with an example. (5)  
b. Explain in detail the different file opening modes. (5)

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