

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - III Computer Science & Business Systems : WINTER : 2024**  
**SUBJECT: OBJECT ORIENTED PROGRAMMING**

Day : Monday  
Date : 09/12/2024

W-24144-2024

Time : 10:00 AM-01:00 PM  
Max. Marks : 60

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

- Q.1** List and explain various Bitwise operators with suitable example of it. (10)  
OR
- Q.1** Define structure. Explain syntax of structure declaration in C. write program using structure to print record of students. (10)
- Q.2** Write a note on function overloading. Write C++ program using function overloading to overload. Add (), Sub () and Mul () etc. (10)  
OR
- Q.2** Differentiate between passing pointer by value and reference. Explain in detail with suitable example. (10)
- Q.3** Define object. Also write various ways to declare object of class with suitable example. (10)  
OR
- Q.3** Write program to display bank account information of customer using class and object with member function outside definition of class. (10)
- Q.4** Define friend function. Write characteristics and importance of it. Also write how to make all functions of one class friend of another class. (10)  
OR
- Q.4** Define constructor. Differentiate between constructor and normal member function. Write program using constructor overloading. (10)
- Q.5** How compile time polymorphism is achieve using operator overloading. (10)  
OR
- Q.5** Define inheritance. List and explain types of Inheritance with suitable example. (10)
- Q.6** Define file handing. Write various operations of file handling with suitable example. (10)  
OR
- Q.6** Define generic programming. Also describe the concept of class template with suitable example. (10)

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