

**B. TECH. (COMPUTER SCIENCE & BUSINESS SYSTEMS) (CBCS - 2018  
COURSE) B.Tech. (CSBS) Sem - III: WINTER- 2019  
SUBJECT: OBJECT ORIENTED PROGRAMMING (UE )**



Saturday 23-11-2019  
10:00 AM-01:00 PM

W-20447-2019  
Max. Marks: 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figure to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.
- 4) Draw neat and labelled diagram **WHEREVER** necessary.

**Q.1** Enlist string library function of C with suitable example. write C program to copy two strings without using library function. (10)

**OR**

**Q.1** Define the functions fclose ( ), fopen ( ), fgets ( ), fputs ( ). Write a C program to search the name and address of person having age more than 30 stored in address file. (10)

**Q.2** Differentiate between using the 'using namespace' directive and using the 'using' declaration for accessing namespace members? How use access classes defined in namespace scope. (10)

**OR**

**Q.2** Enlist Datatypes of C++ with suitable example of each. (10)

**Q.3** Define class and object? Write C++ program to see the working of function overloading. (10)

**OR**

**Q.3** Define array of objects? Write C++ program using classes and object to represent bank account of 5 depositors having data members like name, Account number, Type of account, Balance. (10)

**Q.4** What is constructor? Write its main characteristics. Explain various types of constructor with examples. (10)

**OR**

**Q.4** Write a program to explain the use of 'this' keyword. (10)

**Q.5** Demonstrate the use of polymorphism through dynamic binding with example. (10)

**OR**

**Q.5** Write a program to explain pure virtual function. Also explain the rules of virtual function. (10)

**Q.6** Draw a sequence diagram for 'making a phone call'. (10)

**OR**

**Q.6** Create a generic function max that gives the maximum value of three generic type arguments that are passed to it. Then test this function by calling it with char, int, float type. Also explain function template with this example. (10)