

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Electrical & Electronics Engg.) (2012 Onwards E-I) (Sem.-6)

OBJECT ORIENTED PROGRAMMING

Subject Code : BTEEE-603C

M.Code : 72844

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. Answer briefly :

- Differentiate between data hiding and encapsulation.
- What are parameterized constructors?
- What are virtual destructors?
- What are pure virtual functions?
- Differentiate between new operator and malloc function.
- What are operators << and >> used for?
- Which operator is used to access public members of an object?
- What function can be used to open a file in C++?
- What is explicit constructors?
- What is the use of command line arguments?

SECTION-B

2. Write a program to sort a list of strings into alphabetical order using an array of pointers.
3. Explain how new and delete operators manage memory allocation/deallocation dynamically.
4. How are structures in C different from a class? What is meant by dynamic initialization of a variable? Explain how memory is allocated to classes and objects.
5. Explain the difference between C and C++.
6. Write a program in C++ to count the numbers of digits in given string.

SECTION-C

7. Discuss in detail features of object oriented programming.
8. What are the various types of inheritance in C++? Give an example of each. What are virtual functions and pure virtual functions?
9. Explain the concept of constructors, destructor and friend functions with the help of a program.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.