

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Electronics & Electrical) (2011 Onwards EL-I) (Sem.-6)

OBJECT ORIENTED PROGRAMMING

Subject Code : BTEEE-603C

Paper ID : [A2330]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION 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**Q1. Answer briefly :**

- (i) What is #include directive?
- (ii) Differentiate between encapsulation and abstraction.
- (iii) What is overloading and its use?
- (iv) What is access specifier and its use?
- (v) What is run time polymorphism? Explain.
- (vi) What is Pure virtual function?
- (vii) What are constructors?
- (viii) What are some advantages/disadvantages of using friend functions?
- (ix) Can I overload the destructor of class? Support your answer.
- (x) What are various pitfall of operator overloading?

SECTION-B

- Q2. Explain the structure of a typical C++ program.
- Q3. What is object oriented programming? What are the objectives of this type of programming? Explain its advantages also.
- Q4. What are the generic functions? How can they be overloaded? Illustrate with example(s).
- Q5. Explain the concept of stream in C++.
- Q6. What is reusability? How inheritance implements the concept of reusability in C++? Also explain various types of inheritance by taking suitable examples.

SECTION-C

- Q7. Define a stream. What are the three streams used for inputting, outputting and both for inputting and outputting?
- Q8. (i) Distinguish between single and multiple inheritance.
- (ii) What are abstract classes? What is their role in inheritance?
- Q9. Write a program in C++ to read a file and to :
- (i) Display the contents of the file on to the screen.
- (ii) Display the number of characters.
- (iii) Number of lines in the file.