

Roll No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Automation & Robotics) (2011 & Onwards) (Sem.-4)

OBJECT ORIENTED PROGRAMMING USING C++

Subject Code : BTCS-305

M.Code : 63015

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**1. Answer briefly :**

- a. Give the comparison of C and C++ with examples.
- b. Discuss function prototyping, with an example.
- c. What are advantages of function overriding?
- d. Define 'this' pointer.
- e. What is meant by type conversion?
- f. What is a scope resolution operator?
- g. Discuss derived class pointers.
- h. List some of the rules for operator overloading.
- i. What is the use of *strrev()* function?
- j. What is pure virtual function?

SECTION-B

- Q2 Write a C++ program to count the number of objects of a certain class.
- Q3 Explain the steps of *any one* searching technique.
- Q4 What is function of overloading? Write an example using C++ to illustrate the concept of function overloading.
- Q5 What is a friend class? Why is it required? Explain with an example.
- Q6 What are constructors? How are they different from member functions?

SECTION-C

- Q7 Explain public, private and protected access specifier and show their visibility when they are declared in Inheritance?
- Q8 What is the use of operator overloading? Write a program to overload post and pre increment operators.
- Q9 What are static data members? Explain with an example the use of static data members.

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.