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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Automation & Robotics) (2012 & 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**Q1. Answer briefly :**

- a) Compare C++ with C.
- b) What is Size of operator?
- c) Define this pointer.
- d) List types of operators.
- e) What is dynamic memory location?
- f) Discuss copy constructor.
- g) What are static members?
- h) Differentiate structure and union.
- i) Discuss function overriding.
- j) What are streams in C++?

SECTION-B

- Q2. What is object oriented programming? Explain any five characteristics of object oriented programming languages.
- Q3. What are the differences between public, private and protected variables?
- Q4. What is the significance of constructor? Discuss the rules of defining constructors.
- Q5. Differentiate between Call by Value and Call by Reference with the help of examples.
- Q6. Define Virtual Function? Explain the mechanism of Virtual Function.

SECTION-C

- Q7. Demonstrate unary and binary operator overloading.
- Q8. Write a program to generate Fibonacci series using the Inheritance concept.
- Q9. Discuss the concept of searching in C++. Illustrate any one method of Searching.

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.