Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   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.