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Total No. of Pages : 02

Total No. of Questions : 18

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**Answer briefly :**

1. What is console input/output in C++?
2. Define abstract class?
3. Discuss the encapsulation in C++?
4. What are *ios* functions and flags?
5. Give example of manipulators?
6. Discuss concept of type conversion?
7. What are container classes?
8. Define overriding function?
9. Discuss memory leakage in C++?
10. Write a short note on rethrowing exception?

SECTION-B

11. Describe the steps of declaration and initialization of pointers? List few pointer related problems?
12. Discuss various conditional and iterative statements in object oriented programming?
13. What is typecasting? What are explicit and implicit type conversions?
14. Explain the need of virtual function with the help of suitable example?
15. What is Inheritance? Discuss the concept of object composition and delegation?

SECTION-C

16. Write a program in C++ that checks whether the given string is palindrome or not?
17. What is operator overloading? Write the syntax of overloading operator ++?
18. What are class templates C++? Explain the error handling functions supported in C++?

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.