

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (IT) (Sem.-3)
OBJECT ORIENTED PROGRAMMING

Subject Code : BTIT-302-18

M.Code : 76392

Date of Examination : 13-06-2024

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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. Define Abstraction.
- b. What is user defined data type?
- c. Define scope resolution operator.
- d. Give syntax of Array of Objects.
- e. Give an example of dynamic allocation of object.
- f. Why do we need operator overloading?
- g. Define virtual base class.
- h. Define copy constructor.
- i. Define late binding.
- j. What is the need of try and catch block?

SECTION-B

2. What is the difference between recursion and iterative loops? Discuss your answer with the help of examples.
3. Explain the concept of copy constructor with the help of a program.
4. Write program to overload << and >> operators in complex numbers.
5. Explain how a friend function can access private and protected members of a class. Provide an example to illustrate this.
6. Explain how to overload a unary operator such as ++ or -- Provide an example.

SECTION-C

7. Why do we need inheritance? Explain the different types of inheritance in detail.
8. Discuss about file handling in detail. Write a program to copy the content of one file into another.
9. **Write a short note on :**
 - a. Virtual functions
 - b. Pointer to object

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.