

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

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

Subject Code : BTIT302-18

M.Code : 76392

Date of Examination: 11-12-2023

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) How is polymorphism achieved at compile time and runtime?
- b) List down at least 3 differences between Static and Dynamic Memory Allocation.
- c) What is the value of the following expression?
$$(!((4 - 4 \% 3) < 5 \ \&\& \ (6/4 \ 5 > 3)))$$
- d) Explain the use of get & put pointer in file handling.
- e) Explain the difference between abstraction & data hiding.
- f) What do you mean by precedence and associativity?
- g) Name at least four standard classes in C++.
- h) Define constructor and destructor.
- i) Where are the default arguments of a function defined?
- j) What is a virtual base class?

SECTION-B

2. What is need of defining constructs in a C++ program when a program can run without it? Write a program to find maximum and minimum of three numbers. Use Default and Parameterized constructor.
3. Explain how base class member functions can be invoked in a derived class if the derived class also has a member function with the same name?
4. Explain what is overloaded operator & how does a compiler proceed to execute an overloaded operator?
5. What is the difference between early binding and late binding in C++?
6. Write simple program to read some lines of the file named "text1.txt" .

SECTION-C

7. Discuss the term function overloading. Write a program using function overloading for subtracting two given integer matrices; two floating matrices and double precision matrices separately.
8.
 - a) What are files and how these are handled in C++?
 - b) What are the functions available in C++ to position the file pointer? Write a program to read ten numbers from one file to another.
9. Write a program to copy the content of a data file to another file. Make use of the exception handling conditions also.

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.