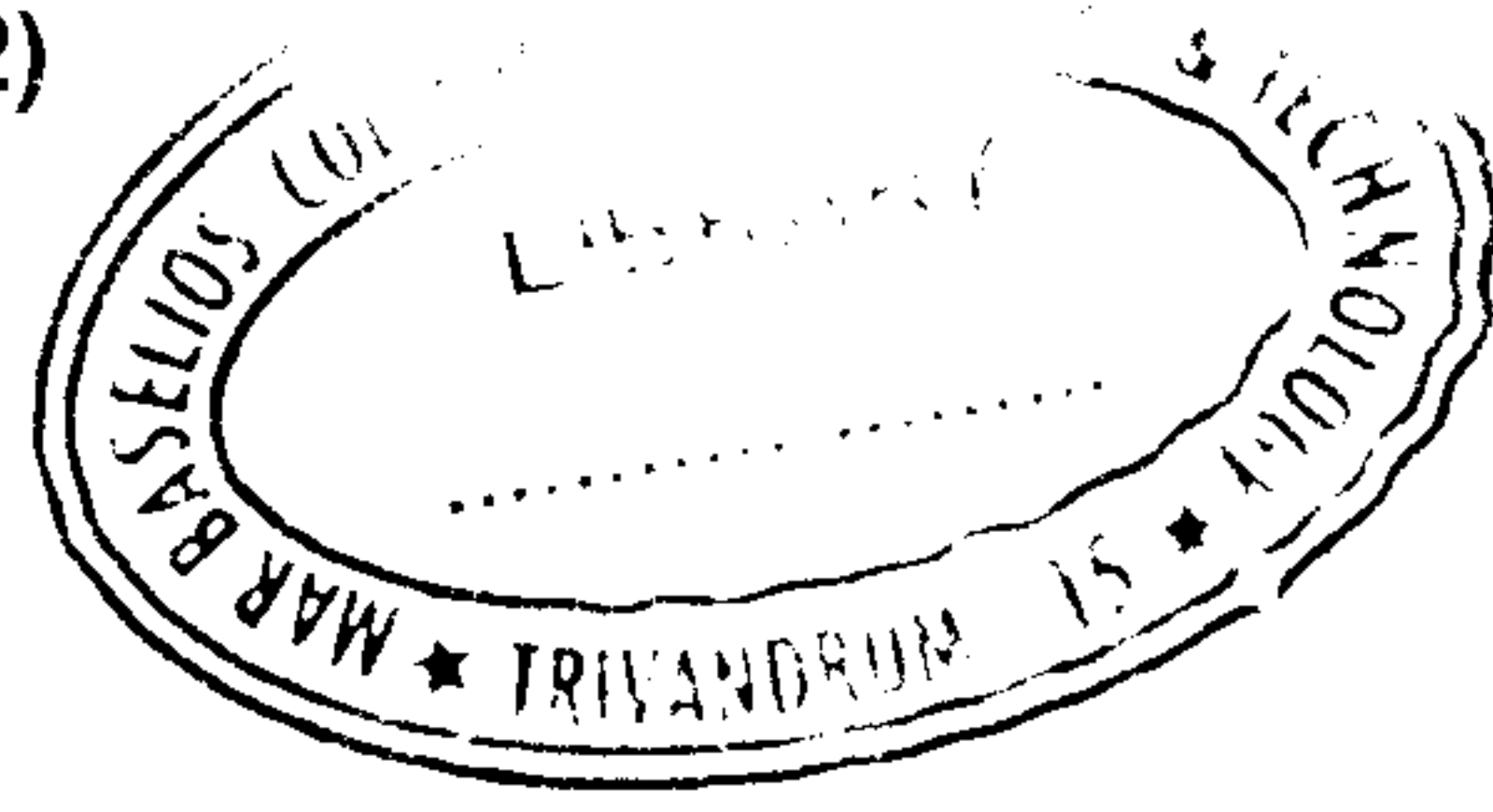




Reg. No. :

Name :



**Third Semester B.Tech. Degree Examination, December 2018
(2008 Scheme)
08.304 : PROGRAMMING IN C++ AND DATA STRUCTURES (TA)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. Differentiate between an object and a class.
2. How does an enum statement differ from typedef statement ?
3. Define a function and show the code used to declare a function in C++.
4. What is the difference between class template and template class ?
5. Using a suitable example describe array initialization.
6. Explain friend function using example.
7. Write a C++ program to find factorial of given number using operator.
8. Explain steps used to execute a quick sorting.
9. Explain the terms throw-catch with example.
10. Explain the basic operations that can be performed on a linked list.

PART – B

Answer **any two** questions from **each** Module. **Each** question carries **10** marks.

Module – I

11. Write a C++ program to check whether the character entered is a vowel or not.

P.T.O.



12. Describe the functions Call by value, call by reference and inline function.
13. Explain with an example how pointers are used in C++ program.

Module – II

14. Discuss five typical uses of inheritance with C++ program.
15. Write a C++ program and algorithm to write number 1 to 100 in a data file Digit. TXT.
16. Explain with an example how to implement debuggers in C++ program.

Module – III

17. What is a binary tree ? Explain breadth first order in binary tree.
18. Write a program to sort n numbers using bubble sort.
19. Explain with an example how to analyze the sorting algorithms.

