SEMESTER EXAMINATION 2021
CLASS: M.Sc. SEMESTER I
SUBJECT: CHEMISTRY
PAPER CODE: MCH- E104
PAPER TITLE: COMPUTER APPLICATION IN CHEMISTRY

Time: 3 Hrs.

Max.Marks:70
Min.Pass%:40

Note: Question paper is divided into two sections: **A and B**. Attempt both the sections as per given instructions.

SECTION-A (SHORT ANSWER TYPE QUESTIONS)

Instructions: Answer any five questions in about 150 words each. Each question carries six marks.   **5X6=30Marks**

Question-1. Explain Algorithm and Flowchart with suitable examples.
Question-2. Define getchar() and putchar() in C with example.
Question-3. Write a C program to determine the Normality of 120 gms NaOH dissolve in 1L solution.
Question-4. Discuss the advantage and Disadvantage of INTERNET.
Question-5. Give a brief note on nonprintable characters and keywords used in C.
Question-6. Discuss scope and applications of Microsoft Office with suitable examples.
Question-7. Convert $(1011011)_2$ and $(7477)_8$ into decimal numbers.
Question-8. Write the merits of High-Level Language language.
Question-9. Write the Rules for naming a variable in C with suitable examples.
Question-10. Write the program for Perimeter of rectangle in C language.

SECTION-B (LONG ANSWER TYPE QUESTIONS)

Instructions: Answer any four questions in detail. Each question carries ten marks.
4X10=40Marks

Question-11. Write a program in C to read 10 integer numbers and then display in reverse order.
Question-12. Write notes on:
   i.   Relational operators
   ii.   Logical operators
   iii. Arithmetic operators
Question-13. Write a program in C to determine the Normality of Oxalic acid and Sodium hydroxide solution.
Question-14. Draw a block diagram of computer and explain its each unit in detail.
Question-15. Write a program in C to determine the rate constant of the First order reaction.
Question-16. Write a program in C to determine the average life and the half-life of 10 radioactive Nuclei.
Question-17. Write a program in C to determine the molecular weight of organic compound by ebullioscopic method.
Question-18. (A) Write a note on 'storage classes' in C
            (B)Application software

PAPER CODE: MCH E-104