

No. of Printed Pages : 03

Roll No.

BB-294

M. Sc. EXAMINATION, May 2018

(Second Semester)

(Main & Re-appear)

CHEMISTRY

CH508B

COMPUTER FOR CHEMISTS

Time : 3 Hours]

[Maximum Marks : 70

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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P.T.O.

Unit I

1. (a) Explain different types of hardware and software components used in digital computer. 7
- (b) What do you mean by operating system ? Explain the disc operating system in brief. 7
2. (a) Explain the following terms in MS Office : 7
 - (i) Margins
 - (ii) Orientation
 - (iii) Fonts.
- (b) Write an algorithm for the addition of two matrix. 7
3. Explain algorithms and flowcharts by taking suitable example. 14

Unit II

4. (a) Explain different types of reserved words in C. 4

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- (b) Explain various types of character sets in C. 4
- (c) What are printf and scanf statements in C ? Explain with example. 6
5. What is an array in C ? Explain one and two dimensional arrays with example. 14
6. (a) What are Operators ? Explain the significance and hierarchy of operators in C. 10
- (b) What is the difference between call by value and call by reference ? 4

Unit III

7. Write a program for the pH titration in C. 14
8. Write a program in C for van der Waals' equation. 14
9. Write a program in 'C' to calculate the rate constant for a 1st order reaction. 14

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