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Total No. of Pages : 02

Total No. of Questions : 19

M.Sc(Cheistry) PIT (2015 to 2017) (Sem.-3)

**COMPUTER FOR CHEMIST**

Subject Code : CHL-506

Paper ID : [74894]

Time : 3 Hrs.

Max. Marks : 70

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **FIVE** marks each and students have to attempt **ALL** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION-A**

- 1) What is the syntax of nested If statement?
- 2) What is a looping statements?
- 3) What is a complier?
- 4) What is the need for operating system?
- 5) Differentiate between compiler & interpreter.
- 6) What are the various types of software used in computers?
- 7) How many byte are required for Int a [20] statement?
- 8) What is an algorithm?
- 9) How syntax of a program is different from symentics?
- 10) What is a conditional statement?

### **SECTION-B**

- 11) What are the various data types in a programming language? Explain with example.
- 12) What is the difference between formal and actual arguments of a function?
- 13) What are the methods through the parameters are passed in Functions?
- 14) What is an array? Write a program to find the sum of the rows, Column and non diagonal elements of a matrix.
- 15) What is the syntax of various input output statements available in programming Language?
- 16) How computer can be used to solve Monte Carlo technique? Explain by taking example of Chemistry.

### **SECTION-C**

- 17) What are the various types of software used in computer? Explain each of them with example.
- 18) What is the specification of a Latest PC? Explain the functionality of each of the component.
- 19) How numerical integration problem can be solved with the help of Computer? Explain the process involved in that.