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DR-1495

M. Sc. (Second Semester) Examination, April-May 2019

CHEMISTRY

Paper : Fifth

(Computers for Chemists)

Time Allowed : Three hours

Maximum Marks : 40

Note : *Attempt questions of all* **two** *sections as directed. Distribution of marks is given with sections.*

Section-'A'

(Short Answer Type Questions)   5×3=15

Note : *Attempt all* **five** *questions. Each question carries 3 marks. Maximum word limit for each answer is 100 words.*

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1. Explain characteristics and limitations of computer.

Or

Describe various components of computer with the help of block diagram.

2. Describe the role of constants and variables in the computer language.

Or

Explain operators and expression in C with their types and examples. http://www.a2zsubjects.com

3. Explain computer codes in Basic or C.

4. Explain Simpson's numerical integration method.

Or

Wrtie a progra for the determination of half life or normality.

5. Discuss uses of OMR.

Or

Describe signficance of search engines.

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Section-'B'

(Long Answer Type Questions) 5×5=25

Note : Attempt all five questions in detail. Each question carries 5 marks. Maximum word limit for each answer is 800 words.

6. What are computer language? Explain their types with advantgages and limits.

Or

Explain operating system. Discuss UNIX operating system with various commands.

7. Explain control statement. Write their types with proper flow charts and example.

Or

Explain variables and dimensions.

8. Explain call by value and call by reference with example. Also differentiate both of them.

Or

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Draw a program for the determination of electgronegativity of bond length.

9. How to operate a PC, give its characteristics and limitation.

Or

What is MS-Excel? Derive a program for chemistry in MS-Excel.

10. What is Internet? How internet is used in chemistry? Discuss with example.

Or

Write short notes on the following (any **two**)

(a) Search engine

(b) PDF file

(c) Web Camera