DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Session - (2018-2019)

Programme Name:

Student's   Name:

Father's Name:

Enrollment Number:

Course Name:

Course Code:

Assignment Number:

Date of Submission:

                                        Course Faculty Signature

Dated:-10/04/2019

Course: BS- 121 – Chemistry

Assignment No: 2

Due date of submission: **22/04/2019**

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
2. Submit the responses to your **"course faculty"** within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

(a) Explain modern form of periodic table in detail.

(b) Explain ionization energies, electron affinity and electronegativity of atom.

Q.2

(a) What is isomerism? Explain different types of isomerism?

(b) What do you mean plane polarized light and chirality of molecules?

Dated:-10/04/2019

Course: BS- 122-2 – Mathematics-II

Assignment No: 2

Due date of submission: **22/04/2019**

Instructions

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Q.1

(a) State and prove Cauchy's fundamental theorem.

(b) Obtain the Taylor's and Laurent's series which represent the function

$$f(z) = \frac{z^2-1}{(z+2)(z+3)} \text{ in the regions}$$

(i) $|z| < 2$ (ii) $2 < |z| < 3$ (iii) $|z| > 3$

Q.2

(a)   Reduce the following equation to canonical form

$$\frac{\partial^2 z}{\partial x^2} = x^2 \frac{\partial^2 z}{\partial y^2}.$$

(b)   Solve the following partial differential equation by separation of variables:

$$\frac{\partial^2 z}{\partial x^2} = x^2 \frac{\partial^2 z}{\partial y^2}.$$

Course: ES- 121– Programming for Problem Solving

Assignment No: 2

Due date of submission: **22/04/2019**

Instructions

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3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

(a) Write a program to print the series

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(b) What is the difference between compiler and interpreter?

(c) What is switch with any example?

Q.2

(a) What is recursion with example and define advantages of function?

(b) What is the difference between while and do-while loop with examples.

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MONAD UNIVERSITY, HAPUR

Dated:-10/04/2019

Course: MC- 121– Environmental Science

Assignment No: 2

Due date of submission: **22/04/2019**

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
2. Submit the responses to your **"course faculty"** within due date.
3. Write your name, programme, and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

(a) What is the importance of water in our daily life?

(b) Write short notes on "CHIPKO MOVEMENT".

Q.2

(a) Write an essay on soil pollution.

(b) Describe details about Pond Ecosystem.