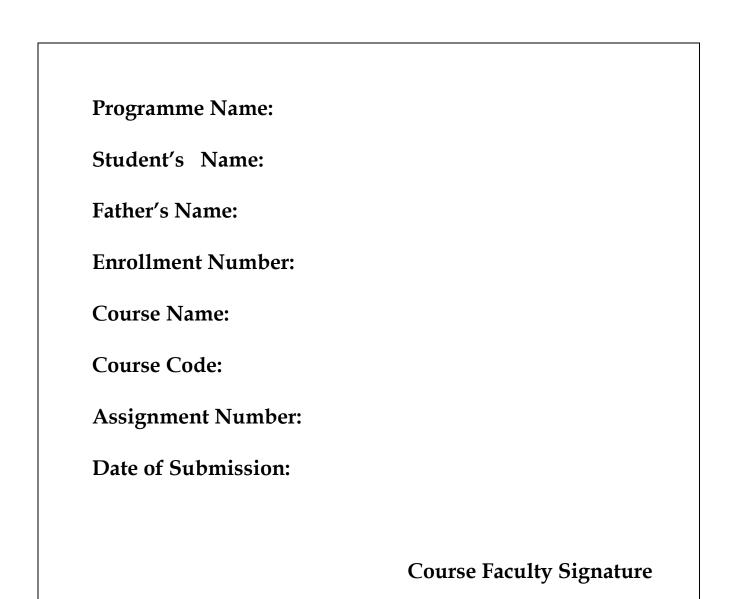


# Session - (2018-2019)





Course: BS-121 - Chemistry

Assignment No: 1

Due date of submission: 12/03/2019

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 Schrodinger equation in detail.
- (b) Explain MOT for O2 and NO molecule.

## **Q**.2

- (a) Explain Crystal Field Theory in detail.
- (b) What do you mean by bond structure of solid?

### Dated:-01/03/2019



Course: BS-122-2 - Mathematics-II

Assignment No: 1

Due date of submission: 12/03/2019

#### 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) Solve the following differential equation:

$$\frac{d^3y}{dx^3} + 3\frac{d^2y}{dx^2} + 3\frac{dy}{dx} + y = e^{-x}.$$

(b) Solve the following differential equation:

$$x(x-1)\frac{dy}{dx} - y = x^2(x-1)^2.$$

**Q**.2

(a) Solve  $\frac{d^2y}{dx^2} + (1 - \cot x)\frac{dy}{dx} - y \cot x = \sin^2 x.$ 

(b) Solve 
$$p = \tan(px - y)$$
.

#### Dated:-01/03/2019



Course: ES- 121– Programming for Problem Solving

Dated:-01/03/2019

Assignment No: 1

Due date of submission: 12/03/2019

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 Loop? Explain different types of loop with program.
- (b) What is pre-processor? Explain different types of directives.

### **Q**.2

- (a) What is an Array? Explain type of Array.
- (b) What is sorting? Explain difference between sorting and searching.



Course: MC- 121- Environmental Science

Dated:-01/03/2019

Assignment No: 1

Due date of submission: 12/03/2019

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 environmental science?
- (b) What is the role of Air in environment?

### **Q.2**

- (a) What are main differences between living and non living organisms?
- (b) How we get Vitamin-D from environment explain it?