



**DEPARTMENT OF ELECTRICAL 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:-01/03/2019

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?



DEPARTMENT OF ELECTRICAL ENGINEERING MONAD UNIVERSITY, HAPUR

Programme: B.Tech.(EE)

Semester: II

Course: BS-122-4 ENGINEERING MATHEMATICS-II

Assignment No: 1

Due date of submission: 12.03.19

Instructions:

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrolment No. clearly at the top of the page.

- Q.1 (a) As you are aware of matrices, define a square matrix with an example.
(b) Define the methods to find the rank of a matrix.

- Q2. (a) Define addition and multiplication of matrices.
(b) Find the rank of the given matrix:

$$\begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 3 & 1 & 2 \end{bmatrix}$$



DEPARTMENT OF ELECTRICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: ES- 121– Programming for Problem Solving

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.



DEPARTMENT OF ELECTRICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-01/03/2019

Course: MC- 121– Environmental Science

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?



DEPARTMENT OF ELECTRICAL ENGINEERING
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Course: **(WAVE OPTICS AND INTRODUCTION TO QUANTUM MECHANICS)**

Course code **BS-121-2**

Assignment No: 1

Due date of submission: 12/03/2019

Instructions:

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrolment No. clearly at the top of the page.

Q 1

- (a) As you are aware of angular momentum. State and Explain the law of conservation of angular momentum.
- (b) As you are aware of Collision .Explain elastic and inelastic Collision.

Q2

- (a) Discuss combine translation and rotational motion of a rigid body on a horizontal surface.
- (b) Derive Time-dependent and time-independent Schrodinger equation for wave function.