



MONAD UNIVERSITY, HAPUR (UP)

Programme: B.Sc.(PCM)

Semester: VI

Course: MTH-321 LINEAR PROGRAMMING PROBLEMS

Assignment No: 2

Due date of submission: 22.04.2019

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) What do you understand by LPP? Explain it in your words with the help of real life example.
(b) As you are aware of LPP, Solve the linear programming problem by simplex method

Maximize: $Z = 12x + 16y$

Subject to: $10x + 20y \leq 120$

$8x + 8y \leq 80$

$x, y \geq 0$

- Q2. (a) As you are aware of assignment problem, solve the following minimal assignment problem:

	1	2	3	4
I	12	30	21	15
II	18	33	9	31
III	44	25	24	21
IV	23	30	28	14

- (b) As you are aware of transportation problem, what is VAM method?



ORGANIC CHEMISTRY, CHE-321

B.Sc. VI SEM

Assignment No: 02

Due Date of Submission: 22 April 2019

Instructions:

- Write the responses to the assignment in your own handwriting.
- Submit the responses to your HOD with in the due date.
- Write your Name, Programme & Enrolment No. Clearly at the top of the page.

Question: 01

- A. Give the structure and synthesis of malachite green and methyl orange
- B. What is Witting reaction? Explain the mechanism.

Question: 02

- A. What is vibrational spectroscopy? Explain in detail.
- B. Derive vibrational energy of diatomic molecule.



MONAD UNIVERSITY HAPUR (UP)

Programme: B.Sc.

Semester: VI

Course: PHY-321 SOLID STATE ELECTRONICS AND DEVICE

Assignment No: 2

Due date of submission: 22 April 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.

Q1.

- a) Explain the transistor biasing and stabilization. Discuss base bias and potential divider bias in detail.
- b) As you are aware of MOSFET. Write short note on pinch of potential and drain to source potential.

Q 2

- a) How a PN junction act as a rectifier? Explain.
- b) Write short note on:
 - (i) Fermi energy.
 - (ii) Deflection layer.
 - (iii) Tunnel diode.