



MONAD UNIVERSITY, HAPUR (UP)

Programme: B.Sc.(PCM)

Semester: VI

Course: BSCMN-361 LINEAR PROGRAMMING PROBLEMS

Assignment No: 2

Due date of submission: 20.04.18

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, Program me, 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

$$\text{Maximize: } Z = 12x + 16y$$

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

$$8x + 8y \leq 80$$

$$x, y \geq 0$$

- 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 unbalanced transportation problem?



MONAD UNIVERSITY, HAPUR (UP)

Programme: B.Sc.(PCM)

Semester: VI

Course: BSCMN-362 NUMERICAL ANALYSIS

Assignment No: 2

Due date of submission: 20.04.18

Instructions:

4. Write the responses to the assignment in your own handwriting.
5. Submit the responses to your HOD within the due date.
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Q1.

- a. As you are aware of Simpson's rule. What is the difference between Simpson's one – third & three eighth rule?
- b. As you are aware of Picard's Method. Solve $\frac{dy}{dx} = 1+xy$ given $x_0 = 0$, $y_0 = 1$ and $h = 0.1$.

Q.2

- a) As you are aware of Newton – Raphson method .Find the cube root of 12 to five decimal places.
- b) As you are aware of Runge Kutta Method What is the difference between Runge Kutta 2nd & 4th rule.



MONAD UNIVERSITY HAPUR (UP)

Programme: B.Sc.

Semester: VI

Course: SOLID STATE AND NUCLEAR PHYSICS

Assignment No: 2

Due date of submission: 20 April 2018

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) As you are aware of nuclear force. Explain different characteristics of nuclear force.
- b) Explain the success and failures of the Shell model of nucleus.

Q2

- a) Discuss the principle, construction and working for a cyclotron.
- b) Write short note on :
 - (i) Mass defect.
 - (ii) Packing fraction.
 - (iii) Nuclear binding energy.



MONAD UNIVERSITY HAPUR (UP)

Programme: B.Sc.

Semester: VI

Course: SOLID STATE ELECTRONICS AND DEVICE

Assignment No: 2

Due date of submission: 20 April 2018

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) As you are aware of transistor. Explain the working and characteristics of transistor.
- b) Write short note on :
 - (i) BJT
 - (ii) Hybrid h -parameters.
 - (iii) JFET.

Q2

- 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-off potential and drain to source potential.



ASSIGNMENT-2

Course- B.Sc.

Sub-Organic Chemistry

Year- IIIrd year/VIth Sem

Last date of Submission-20/04/2018

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, program and Enrolment number clearly at the top of the page.

Q1.

- 1) What are dyes. Give the synthesis of indigo dyes.
- 2) Give the synthesis of alizarin dyes with uses.

Q2.

- a) Give the synthesis of Malachite green dyes.
- b) What is photochemistry? Give the synthesis of Wittig reaction.