

Date: 29.7.2024

ASSIGNMENT
SEMESTER III (MANDATORY PAPER)
CHEMOINFORMATICS (UNIT 4)
ASSIGNMENT No 1

Answer the following in brief:

1. Explain: Chemoinformatics and its history
2. Why is it required to study Chemoinformatics? Describe
3. Write a note on the history of Chemoinformatics.
4. Comment on Chemoinformatics **Vs** Cheminformatics
5. Describe application of Chemoinformatics in details (Any 6)
6. Elaborate on types of learning approach used in Chemoinformatics.

ASSIGNMENT No 2 (ALREADY COMPLETED)

Pick up **any research paper** in field of bioinformatics where “**Chemoinformatics**” is used as an application to solve the problem. Write a summary of research paper which includes:

- a. Title**
- b. Introduction**
- c. Material and Methods**
- d. Results**
- e. Conclusion and Discussion**
- f. References**

ASSIGNMENT No 3

1. What does Chemical Structure Representation describes in Chemoinformatics study?
2. Explain Structure Searching methods in detail.
3. Discuss Chemometrics in detail.
4. Comment :
 - i. Quantitative Structure Activity Relationship (QSAR)
 - ii. Quantitative Structure Property Relationship (QSPR)
 - iii. Computer Assisted Structure Elucidation (CASE)
 - iv. Computer Assisted Synthesis Design (CASD)