Post Graduate Diploma in Chemo-informatics Annual Examination – 2010 Chemical Information Sources PGDC – 105

Time: Two and Half Hours

Max. Marks: 70

Note: Paper is divided into Three Sections. Attempt all questions from Section-A, Any SIX questions from Section-B and Any THREE questions from Section-C.

SECTION- A

Attempt all objective type questions. Each question carries one (1) mark.

1 X 10=10

1.	The first World-Wide Web conference was held in in 1994?
2	CSML stands for
3.	What is Chiron?
4.	The CA file covers chemical literature from ———— to present.
5	What is SDI?
6.	Which are the types of structure searches possible on STN

7	What does CASREACT file on STN cover?
8	is the largest printed compilation of numerical data in existence today.
9	Which are the two Data Mining models?
10.	The database is the largest collection of crystal structure data in the world.

SECTION -B

Attempt any SIX questions. All questions carry equal marks.

6 X 5=30

- Write a brief note on Neural Networks
- 2 Write a brief note on Ring System Handbook and indexing of Ring System Data.
- Explain about STN proximity operators with examples.
- Write a note on sources/databases which provide general safety and toxicology information.
- Explain about Enabling Technologies. Write a note on four classes of data mining functions (Associations, Sequential patterns, Classifiers and Clustering)
- 6 Write a brief note on Current Awareness Services
- 7 Explain about Cluster Analysis which is a data mining technique.
- Write a brief note on reaction databases.

SECTION -C

Attempt any THREE questions. All questions carry equal marks.

10 X 3=30

- Explain about On-line Analytical Processing (OLAP). What are the differences between On-line Analytical Processing (OLAP) and On-line Transaction Processing (OLTP)?
- 2 Write a note on sources/databases which provide physical property information.
- What is Chemical Abstracts Service (CAS)? Write a brief note on other CAS services.
- 4. Write a note on Chem-Informatics Softwares
- 5. Write a note on Molecular Visualization tools and sites