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P.G. Diploma in Chemoinformatics Annual Examination - 2010 Paper No.: PGDC - 101 Basics of Chemoinformatics

Maximum Marks: 70 Time: 2 1/2 Hours

Note: Paper has three sections. Answer ALL questions from Section A, any SIX questions from Section B and any THREE questions from Section C.

(1x10 = 10)Section A Answer all questions 1. Drug latentiation means----2. Give one difference between efficacy and affinity Chemoinformatics is combination of chemical synthesis, biological screening and ------Define the term data base. 5. MINDO stands for -----6. Free Wilson Analysis is a ----- technique using presence or absence of substituent as molecular descriptor in correlation with biological activity. 7. What is difference between a hard and a soft drug? 8. CoMFA stands for -----Define conformational analysis. 10. GTO stands for -----(6x5 = 30)Section B

Answer any SIX questions

- Discuss briefly about 3D-QSAR site model.
- Write short note on use of computer aided molecular design software
- Linking sugars are used in solid phase combinatorial synthesis. Support the statement with examples.
- How is chemical data stored and retrieved? Give examples.
- 15. What was the need for development of cheminformatics?
- What do you understand by molecular diversity analysis and virtual screening
- 17. What are the potentials and prospects of cheminformatics?
- Discuss in detail APEX 3D.

- 19. What do you understand by library designing? What are the various steps involved in library designing? Support your answer by examples.
- 20. What are the chemical strategies for introducing carbohydrate molecular diversity into the drug discovery process?
- 21. Discuss in detail the chemical information system.
- 22. Using pharmacophore diversity how is combinatorial chemistry library designed.
- 23. Give a detailed account of use of cheminformatics. What are the job opportunities in the