Please check whether you have got the right question paper.

N.B: 1. Attempt all questions.
     2. Figures to the right indicate maximum marks assigned to the sub-question.

Q.1 (A) Attempt Any Two of the following
     i) Give importance of WIPO. 04
     ii) Explain Trade Marks and give its types. 04
     iii) Discuss various materials that can be copyrighted with suitable examples. 04
     iv) Write a note on Industrial Design and its registration process. 04

B) Explain the need for patenting and give advantages of Patents 04

OR

B) Explain PCT system and give its use 04

Q.2 A) Attempt Any Two of the following
     i) Write note on Budapest Treaty 04
     ii) Describe Trade Secrets Protection 04
     iii) Write the note on the Berne convention 04
     iv) Explain TRIPS agreement in detail 04

B) Write note on General Agreement on Tariffs and Trade (GATT) 04

OR

B) Explain Plant Breeders Rights 04

Q.3 A) Attempt Any Two of the following
     i) Draw SMILES for the following 04
        a) nonane   b) benzene   c) 1-octene   d) acetic acid
     ii) What are connection tables? 04
     iii) Write a note on molecular modelling 04
     iv) Explain the full structure search. 04

B) Give canonical representations of molecular structures. 04

OR

B) Give historical development of cheminformatics. 04
Q.4 A) Attempt Any Two of the following
   i) What is docking? Explain ligand based docking in drug designing. 04
   ii) Give applications of cheminformatics. 04
   iii) Write a note-on toxicity. 04
   iv) Give design of QSAR 04

B) Give analysis of HTS data. 04

   OR

B) Give linear Free Energy Relation in brief. 04

Q.5 Attempt Any Four of the following
   i) Write a note on Protocol related to the international registration trademarks. 03
   ii) Explain the role of the judiciary in Infringement issues related to Intellectual property rights. 03
   iii) Define Geographical Indications and give rules for its registration. 03
   iv) Explain Software patents and give its use. 03
   v) Give three names of file formats commonly used in representing the molecules. 03
   vi) State the rules of writing SMILES for molecules. 03
   vii) Write a note on library design in lead optimization. 03
   viii) Write a note on polar surface area. 03

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