[Time: 2:30 Hours] [Marks:60]

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	30,0
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 STATE	
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

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Q.4	A) Attemp	pt 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 a	nalysis of HTS data.	04
		OR A A A A A A A A A A A A A A A A A A A	
]	B) Give li	near Free Energy Relation in brief.	04
Q.5	Attemp	ot 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	03
		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	i) Write a note on polar surface area.	03
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