

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 7180

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Unique Paper Code : 2173540016

Name of the Paper : CHEMICAL PATENT ANALYTICS & IP STRATEGY

Name of the Course : **B.Sc. (Prog.) Analytical Chemistry**

Semester : VIII

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **FOUR** questions in all.
3. **All** questions carry equal marks.

Q 1. (i) Explain the anatomy of a chemical patent with diagram.

(ii) Explain the role of traditional knowledge (Turmeric/Neem cases) in patent law.

(iii) Why are pharmaceutical patents more strictly examined under section 3(d)?

(5, 5, 5)

Q2. (i) Define:

(a) Patent family (b) citation analysis (c) prior art

(ii) What are Markush structures?

(iii) Design a strategy to search patents for a new drug molecule.

(5, 5, 5)

Q3. (i) Explain claim drafting strategies for chemical inventions.

(ii) Draft claims for a new synthetic pathway of a drug.

(iii) Explain structure-based methodologies: (a) SMILES (b) InChI.

(5, 5, 5)

Q 4. (i) Who is an assignee in a patent? Can assignee and inventors be same?

(ii) Differentiate between provisional vs complete specification.

(iii) Explain patenting of: (a) polymorphs (b) formulations

P.T.O.

Q 5. (i) Explain the role of patents in startup formation.

(ii) Explain case study: Green chemistry patents.

(iii) What is university- Industry collaboration (UIC)?

(5, 5, 5)

Q 6. (i) Explain case studies: Bayer vs Natco.

(ii) Write a short note on FTO analysis.

(iii) Why is broad claim drafting risky?

(5, 5, 5)