Pharmaceutical Analysis

Time: 3 Hours

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw Diagrams wherever necessary.

Essays

- 1. Explain the different sampling techniques in IR spectroscopy.
- Explain the construction, working, advantages and disadvantages of dropping mercury electrode. (3+3+2+2)
- 3. With a neat diagram, explain the different parts and working of HPLC.

Short notes

- 4. Explain the theory of fluorescence with energy level diagram.
- 5. Parameters of validation.
- 6. Mention the carrier gases used in gas chromatography and give their merits and limitations.
- 7. What are the types of electronic transitions observed when an organic molecule absorbs UV light.
- 8. Enumerate the types of ions formed in mass spectroscopy.
- 9. Explain the various types of X-ray diffraction methods.
- 10. Frontal analysis.
- 11. Explain the factors affecting Rf value in TLC.



(8x5=40)

(3x10=30)

Reg. No:

Total Marks: 70