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. Describe total quality management.
- 2. Explain the working of any one specific (or solute) property detector and one bulk property detector used in HPLC.
- 3. How are solid, liquid and gas samples handled in IR spectroscopy

Short notes

- 4. State Beer Lambert's law and derive an equation for the same
- 5. Write a note on statistical quality control
- 6. Explain various types of plate preparation techniques in thin layer chromatography.
- 7. Any two advantages and limitations each of pneumatic pump, piston pump and syringe pump used in HPLC.
- 8. List the applications of gel filtration and affinity chromatography.
- 9. Why oxygen should be removed from the analyte solution before polarographic analysis. Explain.
- 10.Explain premix laminar and total consumption burners
- 11. Explain differential scanning calorimetry. Differentiate between heat flux and power compensation DSC



(8x5=40)

(3x10=30)

Reg. No:

Total Marks: 70