

(LE 4270)

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ANALYSIS

Q.P. Code: 564270

#### **Time: Three Hours**

### I. Elaborate on:

- 1. a. Write in detail about the principles involved in chromatography
  - b. Write the principle and working principle of HPLC with a neat diagram
- 2. a. Write the principles involved in UV spectroscopy
  - b. Explain the principle and working principle of IR spectroscopy

#### II. Write notes on:

- 1. Explain the principle involved in Fluorimetry.
- 2. Flame Spectrophoto meter
- 3. a. Photo Multiplier tube b. Photo Voltaic cell
- 4. Glass electrode
- 5. Gel filtration
- 6. Principle involved in NMR Spectroscopy
- 7. Different type of development techniques in paper chromatography
- 8. Give a brief account on ISO 9000, TQM

#### **III. Short Answers on:**

- 1. Explain HETP
- 2. Principle of Separation in GSC
- 3. Isocratic elution
- 4. Self quenching
- 5. Diffusion current
- 6. Nernst globar
- 7. Methods of detection in TLC
- 8. ODS
- 9. Examples of Maxima suppressors
- 10. Isobestic Point

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# Maximum: 100 marks

(2X20=40)

(8X5=40)

## (10X2=20)