

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester-III
End Term Examination, February 2016
Advanced Analytical Chemistry-I (PC-312)

Time: 2 hrs

Maximum Marks: 50

Q-1 Answer any 09 Questions. [1 mark each] (09)

1. Unit to measure moisture _____
(a) kg/lit (b) % (c) gm/mole (d) none of these
2. Match the following

Allumina	Stationary Phase
	Mobile Phase
	Detecting Agent
3. Define: - Resolution.
4. Unit of resolution value is _____
(a) kg/lit (b) cm (c) gm/mole (d) none of these
5. 1 volt = _____mv.
6. Column chromatography works on _____ principal
(a) gravitation (b) kinetic energy (c) KETP (d) HETP
7. Define acidic pH range.
8. Full form of TLC is _____
9. Equation of Rf value is _____
10. Kjehldahl's method is used to determine potassium (True/False).

Q-2 Answer any 5 Questions. [4 mark each] (20)

1. Explain column efficiency, resolution and retention time.
2. What are the different factors affecting thin layer chromatography?
3. Explain about any two types of paper chromatography?
4. Discuss glass electrode & its advantages, disadvantages in detail.

5. State conductometer.
6. Write a short note on weak acid buffer capacity.

Q-3 Answer any 3 Questions.

[7 mark each]

(21)

1. Explain Kjedahl's method.
2. Discuss in detail Karl Fischer Titration
3. Describe Soxhlet extraction technique.
4. Derive equation of conductometry with cell constant.

-----BEST OF LUCK-----