

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester-III
Mid SEM Examination, November 2015
Advanced Analytical Chemistry-I (PC-312)

Time: 2 hrs

03/11/2015

Marks: 60

Q-1 Answer any 12 Questions. [1 mark each] (12)

1. Karl Fisher is used to measure _____
2. Equation of R_f value is _____
3. Unit of resolution value is _____
(a) kg/lit (b) cm (c) gm/mole (d) none of these
4. Define: - Chromatography.
5. 1 cm = _____ mm.
6. Match the following

	Mobile Phase
Silica	Detecting Agent
	Stationary Phase
7. Identify detecting agent for chromatography.....
(a) NaOH (b) H₂SO₄ (c) KBr (d) I₂
8. Full form of TLC is _____
9. Kjeldahl's method is used to determine potassium (True/False).
10. Fraction collection is a part of column chromatography? (True/False).
11. LLE means _____
12. Soxhlet extraction is a type of cold extraction (True/False).
13. Define: Extraction technique.

Q-2 Answer any 5 Questions.

[4 mark each] (20)

1. Define chromatography. Classify chromatographic methods on the basis of mobile phase and stationary phases.
2. What are the different factors affecting column chromatography?
3. Explain about any two types of paper chromatography?
4. How can you say that TLC is superior to paper chromatography.
5. Explain column efficiency, resolution and retention time.
6. Discuss advantages and disadvantages of column chromatography.

Q-3 Answer any 4 Questions.

[7 mark each]

(28)

1. Explain Kjeldahl's method.
2. State extraction technique. Classify extraction techniques.
3. Discuss in detail Karl Fischer Titration
4. Describe Soxhlet extraction technique.
5. What is TLC explain it in detail.

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