

Hemchandracharya North Gujarat University, Patan  
Bachelor of Vocation

'Pharmaceutical Chemistry' Semester - II

END TERM Examination, April, 2019

Subject: Analytical Chemistry (PC-214)

Time: 2 hrs

Date-29/04/2019

Maximum marks: 50

**Q.1 Answer any 9 questions. Each question carries 1 mark (9\*1=9Marks)**

- Which of the following is not a type of indicator-  
(a)  $\text{KMnO}_4$  (b) Phenolphthalein  
(c) Iodine (d) Methyl Red
- What is molarity?
- What is Random Error?
- Match the following.

Column I	Column II
1. Complexometric titration	P. Phenolphthalein
2. Iodometric	Q. EDTA
3. Acid Base titration	R. $\text{Na}_2\text{S}_2\text{O}_4$

- Classical method of analysis includes instruments. (True/False)
- What is ASTM  
(a) American Social of Testing Method (b) American Society of Testing Material  
(c) American Society of Testing Method (d) American Social of Testing Material
- \_\_\_\_\_ give sampling rule for Food material. (AOAC/ASTM)
- What is mole fraction?
- What is Accuracy?
- Molarity is mole per gram of Solution. (True/False)

**Q.2 answer any 5 questions. Each question carries 4 marks (5\*4=20 Marks)**

- Explain the Classical method of analysis.
- Explain Sampling and its rule.
- What is the molarity of 4 gm NaOH in 250 ml solution?
- What is Complexometric titration? Explain it.
- What is mean of 10.6, 10.5, 10.4, 10.7 and 10.8?
- Explain the primary and secondary standard.
- What is ASTM?

**Q.3 Answer any 3 questions. The question carries 07 marks (3\*7=21 Marks)**

- Explain Errors and its type.
- Explain Acid base titration.
- Give name of books related analytical chemistry.
- Explain Different type of concentrations.