

**Shree Manibhai Virani and Smt. Navalben Virani Science College (Autonomous), Rajkot**  
Affiliated to Saurashtra University, Rajkot

**SEMESTER END EXAMINATION NOVEMBER - 2017**

**M.Sc. Analytical Chemistry**

**16PCEAC03 – INDUSTRIAL ANALYSIS**

*Duration of Exam – 3 hrs*

*Semester – III*

*Max. Marks – 70*

**Part A (5X2= 10 marks)**

Answer **ALL** questions

1. What are components of blood?
2. Mention the Reaction in KFR.
3. What is pharmacopoeia?
4. What is limit test?
5. Give test for phosphorous.

**Part B (5X5= 25 marks)**

Answer **ALL** questions

- 6a. Classify different types of Pharmaceutical dosage forms.

**OR**

- 6b. Explain disintegration test for Tablets & Capsules

- 7a. Give detail classification of pesticides.

**OR**

- 7b. Explain Lethal dose LD-50 in detail.

- 8a. Write a note on friability testing.

**OR**

- 8b. Explain limit test of Arsenic

- 9a. Explain limit test for chlorine

**OR**

- 9b. Describe toxins & poisons.

- 10a. What are bio pesticides?

**OR**

- 10b. Explain estimation of urea in fertilizers.

**Part C (5x7= 35 marks)**

Answer **ALL** questions

11a. Describe test for tablets.

**OR**

11b. Explain method to find out moisture content.

12a. Give detailed classification of pesticides & insecticides.

**OR**

12b. Describe different branches of forensic science analysis.

13a. Explain Dumas method & Kjeldahl's method.

**OR**

13b. Write a brief note on Karl Fisher Titration.

14a. Describe fertilizers in detail.

**OR**

14b. Write a note on applications of forensic science

15a. Discuss methods for estimation of phosphorous.

**OR**

15b. Describe methods for estimation of potassium.

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