

Pramukh Swami Science & H.D. Patel Arts College, Kadi  
Bachelor of Vocation Pharmaceutical Chemistry Semester- II  
Internal Examination, March -April -2018,  
(PC-214)\_Analytical Chemistry  
02/04/2018 Total Marks: 60  
Time: 2 hours

Que-1. Answer any 12 questions. Each question carries 1 mark [12]

1. In Semi micro Method what can be Weight in (mg) of the Sample by its Sample Size?  
a) 1-10 mg                      b) < 1 mg  
c) 10 – 100 mg                d) >100 mg
2. What is Q – Test?
3. Give Name of a book written by A. I. Vogel?
4. Give the Definition of “Standard Deviation”?
5. Which is Mean of following Observation 12.18, 12.22, 12.24, 12.28 ?  
(a) 12.23                      (b) 12.25  
(c) 12.21                      (d) 12.27
6. Give the definition of Accuracy?
7. What is Sampling Design?
8. Instrumental error is a types of \_\_\_\_\_ error.  
a) systematic b) random c) Quality d) All of the above
9. Define the Word Dry ashing?
10. How many Significant Figures of 106.3.
11. EBT is an example of primary standard. (True/False)
12. What is Census inquiry?
13. Which acid use as a oxidizing agent in wet digestion for organic matter?

Que-2. Answer any five questions. Each question carries 4marks [20]

1. Explain Accuracy and Precision with suitable example.
2. Wright done short note on Significant figure.
3. The Following Amount of Cl<sup>-</sup> ions Obtained as Shown Below, 103, 106, 107, 114 mg/lit.

Whether 114 Results should be Rejected? For the Observation the value of  $Q_{90}$  is 0.76.

4. Write a short note on Literature of Analytical chemistry.
5. Explain Wet digestion method with advantages and disadvantages.
6. Explain sampling procedure.
7. Discuss Crushing and Grinding.

Que-3. Answer any four questions. Each question carries 7 marks [28]

1. What is error? Explain its types.
2. Discuss advantages and limitation of chemical and instrumental methods.
3. To calculate Mean, Median, Range, Deviation, Standard Deviation From given Burette readings.  
12.25, 12.24, 12.30, 12.28, 12.25, 12.26.
4. Explain Step in Sample design.
5. Short note on Hazards in sampling.
6. Discuss general step in chemical analysis.