

B.Pharm 1st Semester Exam., 2017

PHARMACEUTICAL ANALYSIS—I

Time : 3 hours

Full Marks : 70

Instructions :

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Answer any seven questions of the following :

 $2 \times 7 = 14$

- (a) Define precision.
- (b) What is standard deviation?
- (c) Define pH. Give the formula.
- (d) Define conjugated acid and conjugated base.
- (e) Give the example of iodometry.
- (f) What is the equivalent weight of ceric ammonium sulphate?

(2)

(g) Give the name for indicator in argentometric titration.

(h) Define solubility product.

(i) What is post-precipitation?

(j) Define supersaturation.

2. Classify different techniques of analysis. Explain the rule for identifying significant figures giving suitable examples. 14

3. Discuss acid-base titration. Give the procedure of calcium carbonate titration. 14

4. Classify the oxidizing and reducing agents. Discuss the iodometry. 14

5. What is electrode potential? Discuss the measurements of electrode potential. 14

6. Discuss principle of precipitation titration. Discuss Fajan method in detail. 14

7. Give the complete procedure of barium sulphate titration. 14

8. What is the advantage of gravimetric titration over volumetric titration? Discuss the precautions in gravimetric titration. 14

9. Write notes on any two of the following : 7×2=14

(a) Common ion effect

(b) Factors affecting gravimetric titration

(c) Volhard method
