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Paper Id: 150232

Sub Code: RPH204

Roll No.

NAME OF PROGRAM (SEM-II) THEORY EXAMINATION 2017-18 PHARMACEUTICAL ANALYSIS-I

Time: 3 Hours Total Marks: 70

Note: 1. Attempt all Sections.

SECTION A

1. Attempt all questions in brief.

 $2 \times 7 = 14$

- a. What is accuracy and precision?
- b. Write the equivalent weight of KMnO₄ in acidic, basic and neutral medium.
- c. What are pM indicators? Give examples.
- d. Define electrode potential and standard electrode potential.
- e. What is radioimmunoassay?
- f. Define 'polyprotic system'.
- g. Give the principle of diazotization titration.

SECTION B

2. Attempt any three of the following:

 $7 \times 3 = 21$

- a. Explain neutralization curve between strong acid- strong base with complete illustration including neutralization curve.
- b. Give the principle of precipitation titration. Explain Fajan's method in detail.
- c. Explain Redox titration curve with suitable example.
- d. Describe Kjeldahl's method for nitrogen determination.
- e. Discuss the significance of quantitative analysis in quality control.

SECTION C

3. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) What are primary and secondary standards? Discuss their properties.
- (b) Explain in brief various types of errors encountered in quantitative analysis.

4. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) Write a note on various theories of acid base indicators.
- (b) Write assay method for boric acid as per IP.

5. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) What is the difference between iodimetry and iodometry? Give examples of such titrations.
- (b) Write the method for ascorbic acid tablets as per IP.

6. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) Explain masking and demasking in complexometric titration.
- (b) Discuss the method for determination of hardness of water.

7. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) Explain in detail Karl Fischer titration.
- (b) Discuss the method for assay of sodium iodide (I ¹³¹).