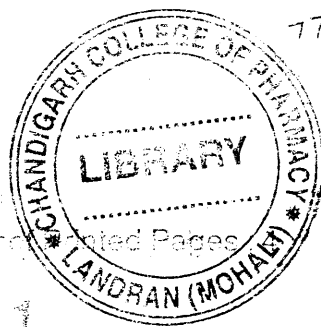


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PHM-1.1.1

PHARMACEUTICAL ANALYSIS-I

(B.Pharmacy, 1st Semester, 2055)

Time : 3 Hours

Maximum Marks : 80

Note :- Section A is compulsory. Attempt any Four questions from Section B and any Three questions from Section C.

Section-A

Marks : 2 Each

1. (a) What is oxidation level of carbon?
- (b) What is a primary standard? Give two examples.
- (c) What is a buffer? Name one buffer present in the blood.

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(2)

- (d) What is K_a and what is its relationship with the acid strength ?
- (e) What do you understand by colour change interval of an indicator ?
- (f) What is the use of digestion of precipitates in gravimetry ?
- (g) What is the function of potassium iodide in iodine solutions ?
- (h) Define a Lewi's acid. Give *one* example.
- (i) Define molarity and normality.
- (j) Differentiate between iodometry and iodimetry.
- (k) Define standard deviation.
- (l) How will you differentiate between a precipitates and a crystal
- (m) Define e.m.f.

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(3)

- (n) What is the utility of significant figures ?
- (o) What are argentimetric titrations ? What kind of water should be used in such titrations ?

Section-B

Marks : 5 Each

Write a note on thermogravimetric curves.

- 3. What is the pharmaceutical importance of buffers ?
- 4. What type of neutralization curve is obtained for neutralization of acetic acid with sodium hydroxide ? Which indicator is used in such a titration ?
- 5. Titration of 1 g of sodium carbonate against 0.1 N HCl consumes 20 ml of the titrant. What is the percentage purity of the sample.
- 6. Mean of 12 observations is 8.67 and true value is 7.91. If the standard deviation is 0.17, state whether or not this result is significant.

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Turn Over

(4)

Section-C Marks : 10 Each

7. How will you classify salts based on their hydrolytic tendency ? How does hydrolysis affect the solution pH in various cases ?
8. Enumerate various methods to minimize errors in pharmaceutical analysis.
9. What is the role of solubility product principle in determining the end point in Mohr's method of chloride estimation ? How does this method differ from Volhard's method ?
10. Write a note on titrations involving sodium-2,6-dichlorophenol indophenol titrations.

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