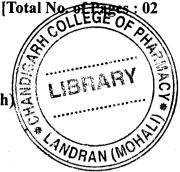
Roll No. Total No. of Questions : 10]

22/12

B. Pharmacy (Sem. - 1st) PHARMACEUTICAL ANALYSIS - I <u>SUBJECT CODE</u> : PHM - 1.1.1 (2k9 Batch) <u>Paper ID</u> : [D0145]



[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Instruction to Candidates:

- 1) Section A is **Compulsory**.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Three questions from Section C.

Section - A

01)

- a) Standard deviation.
- b) Student t-test.
- c) Conjugate acid and conjugate base.
- d) Precision.
- e) Self indicator.
- f) Blank titration.
- g) Co-precipitation.
- h) Digestion.
- i) Salt hydrolysis.
- j) Titration curve.
- k) Oxidation number.
- l) Standard reduction potential.
- m) Colloids solution.
- n) Acidimetry.
- o) Buffer solution.

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P.T.O.

Maximum Marks : 80

 $(15 \times 2 = 30)$

 $(4\times 5=20)$

- **Q2)** Discuss various theories of neutralization indicator.
- *Q3*) Discuss titration curve of weak acid with weak base.
- *Q4*) Describe Idometric and Iodimetric assays with suitable examples.
- **Q5)** What is the critical role played by common ion effect in gravimetric analysis? Explain.
- **Q6)** Explain role of solubility product in precipitation reactions governing argentimetric titration methods.

Section - C

$(3 \times 10 = 30)$

- **Q7)** What are the two major types of error encountered in pharmaceutical analysis? Explain with suitable examples.
- **Q8)** What is Volhard's method of argentimetric titration? Explain it with the help of equation and the precautions involved in it.
- **Q9)** Describe measurement of electrode potential and its application in determining equilibrium constant of redox reaction.

Q10) Write short notes on :

- (a) Organic precipitant.
- (b) Titration of polyprotic acid.

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