

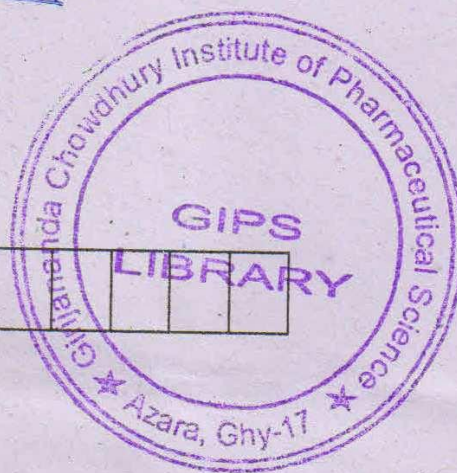
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**BP 102T**

Roll No. of candidate

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**2017**

**B.Pharm. 1st Semester End-Term Examination**

**PHARMACEUTICAL ANALYSIS - I**

**(New Regulation)**

Full Marks – 75

Time – Three hours

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The figures in the margin indicate full marks for the questions.

1. Answer all the questions : (10 × 2 = 20)
  - (a) Explain the term quality control and calibration.
  - (b) Differentiate primary and secondary standard.
  - (c) How will you prepare 0.2 N 250 ml oxalic acid solution?
  - (d) Define the term hygroscopic and buffer capacity.
  - (e) Differentiate iodometry and iodimetry.
  - (f) What do you mean by induced nucleation? Define co-precipitation.
  - (g) Explain masking and demasking agent.

[Turn over



- (h) Why conc. sulphuric acid is added during the standardization of potassium permanganate by sodium oxalate?
- (i) Why blank titration should be performed during the assay of boric acid?
- (j) Write any two application of potentiometric titration.

2. Answer *any two* from the followings : (2 × 10 = 20).

- (a) Define error. Classify error with suitable example. How will you minimize the error explain elaborately? (1 + 5 + 4 = 10)
- (b) Describe the steps of gravimetric analysis. Write the application of gravimetric analysis. (6 + 4 = 10)
- (c) What are the different types of EDTA titrations? Describe any one in detail. Explain redox indicators. (2 + 4 + 4 = 10)

3. Answer *any seven* from the followings : (7 × 5 = 35)

- (a) Sketch a polarogram and label two important details of the polarographic wave on your diagram.
- (b) Explain different application of conductometric titration.
- (c) Describe Mohr's method and modified Volhard's method of precipitation titration.



- (d) How will you standardize sodium thiosulphate solution with potassium iodate? Explain in detail?
  - (e) Derive Henderson Hasselbelch equation. Explain the law of mass action citing example.
  - (f) Write a note on salt hydrolysis citing example.
  - (g) Explain the basic principle and application of diazotization reaction.
  - (h) Explain the sources of impurities in medicinal agents.
  - (i) Describe the assay of copper sulphate.
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