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DP—33—2022

FACULTY OF SCIENCE AND TECHNOLOGY

B. Pharm. (First Year) (First Semester) EXAMINATION

MARCH/APRIL, 2023

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PHARMACEUTICAL ANALYSIS-I

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Paper BP102T

(Saturday, 18-3-2023)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—75

- N.B. :-* (i) All questions are compulsory.
(ii) Answer to the point only.
(iii) Figures to the right indicate full marks.

1. Answer the following :

10×2=20

(a) Define :

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(i) Neutralization indicator

(ii) Self-indicator.

(b) Name the primary standard and indicator used in standardization sodium hydroxide solution.

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(c) What is meant by cell constant ?

(d) Comment on 'Significant Figures'.

(e) Write principle of Gravimetry.

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P.T.O.

(f) Define : [Visit - pharmacyindia.co.in](https://pharmacyindia.co.in)

(i) Oxidizing agent

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(ii) Electrochemical cell.

(g) What is Half Wave Potential ?

(h) Comment on 'Post Precipitation'.

(i) Define : <https://pharmacyindia.co.in/>

(i) Aprotic Solvent

(ii) Strong Acid.

(j) Calculate molarity of the solution, if 250 ml solution contains 1g NaOH.
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2. Solve any *two* of the following :

2×10=20

(a) Discuss construction, working and merits of normal hydrogen electrode.

(b) Discuss in detail theories of acid-base indicators.

(c) Describe principle and procedure of estimation of magnesium sulphate and calcium gluconate.
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3. Solve any *seven* of the following :

7×5=35

(a) Write principle, procedure and stoichiometric factor of standardization sulphuric acid.
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(b) Describe various methods of minimization of errors.

(c) Explain Alkalimetry titration with suitable example.

(d) Write the principle and procedure of modified Volhard's method.

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(3)

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- (e) Discuss in detail diazotisation titration.
- (f) Describe different types of complexometric titration.
- (g) Write construction and working of dropping mercury electrode.
- (h) Explain 'cerimetry' with suitable example.
- (i) Explain 'Conductometric Titration'.

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