

Roll No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B.PHARM FIRST SEMESTER**

**FIRST INTERNAL THEORY EXAMINATION: 2022-23**

Subject Name: Pharmaceutical Analysis I

Subject Code: BP102T

Time: 1 hr 15 min

Date: 10/01/2023

Total Marks: 30

**Instructions:**

1. Make suitable assumptions wherever necessary.
2. Figures to the right indicate maximum marks.

		CO	BL
<b>Q.1</b>	<b>Multiple Choice Questions.</b>	<b>10 Marks (10 X 1=10)</b>	
<b>1</b>	In a measurement, what is the term Used to specify the closeness of two or more measurements	<b>(1)</b>	1
	a) Precision		
	b) Accuracy		
	c) Fidelity		
	d) Threshold		
<b>2</b>	The secondary standard solution is	<b>(1)</b>	1
	a) HCl		
	b) Oxalic Acid		
	c) Na <sub>2</sub> CO <sub>3</sub>		
	d) KMnO <sub>4</sub>		
<b>3</b>	No. of gm equivalent weight of substance dissolved in 1 lit. of solution is	<b>(1)</b>	1
	a) Molarity		
	b) Normality		
	c) Molality		
	d) Formality		
<b>4</b>	Instrumental error is which type of error?	<b>(1)</b>	1
	a) Systematic		
	b) Random		
	c) All the above		
	d) None of these		
<b>5</b>	How many significant figures are there in 2.4580?	<b>(1)</b>	1
	a) 6		
	b) 4		
	c) 5		
	d) None		
<b>6</b>	According to which of the acid base theory, acid is a molecule or ion that accepts an e <sup>-</sup> pair to form a covalent bond	<b>(1)</b>	2
	a) Bronsted & lowry		
	b) Lewis		
	c) Arrhenius		
	d) None		
<b>7</b>	What is the concentration of the sulphuric Acid solution, if 100 ml of the solution is neutralised by 50? ml of 0.5 M Ba(OH) <sub>2</sub> solution	<b>(1)</b>	2
	a) 0.25 M		
	b) 0.5 M		
	c) 50 M		
	d) 100 M		
<b>8</b>	_____ is not an amphiprotic solvent.	<b>(1)</b>	2
	a) Water		
	b) Alcohol		
	c) Acetic acid		
	d) None		

<b>9</b>	pH of $[H^+] = 10^{-6}$ g ion/lit is	<b>(1)</b>	2	3
	a) 6	b) 10		
	c) 7	d) 5		
<b>10</b>	Diazepam is Assay by which method	<b>(1)</b>	2	1
	a) Acid-base titration	b) Karl Fischer titration		
	c) Non-aqueous titration	d) NMR		
<b>Q.2</b>	<b>Long Answer: (Answer Any one)</b>	<b>10 Marks (1 X 10 =10)</b>		
	1) Give the various theories of indicators used in acid base titrations.		2	1
	2) Write a detailed note on Neutralization Curve between weak acid and strong base and Strong acid and strong base.		2	2
<b>Q.3</b>	<b>Short Answer: (Answer Any Two)</b>	<b>10 Marks (2 X 5=10)</b>		
	1) What is error? Differentiate between Determinate and Indeterminate error.		1	2
	2) Write in brief on primary standards.		1	1
	3) Write in detail on limit test for heavy metals.		1	2