Roll No.:

## PARUL UNIVERSITY

## PARUL INSTITUTE OF PHARMACY

## B.PHARM FIRST SEMESTER

## FIRST INTERNAL THEORY EXAMINATION: 2018-19

FIRST INTERCEMENT		
Subject Name: Pharmaceutical Analysis Subject Code: BP102T Time: 02:00 pm to 03:15 pm	Date: 25/09/201 Total Marks: 3	0
Instructions: 1. Figures to the right indicate full marks. 2. Make suitable assumptions wherever necessary.		
Q.1 Multiple Choice Questions:	01	
<ul> <li>(1) What is limit test?</li> <li>a) test for organic impurity</li> <li>c) test for purity</li> <li>(2) Weight equivalent to mol.wt is dissolved</li> </ul>	b) test for inorganic impurity d) none ed in 1 litre of solvent is 01	
<ul> <li>a) 1 molar solution</li> <li>c) 1 molal solution</li> <li>(3) Very low concentration is expressed in</li> </ul>	b) 1 normal solution d) None 01	
a) %w/v c) ppm (4) Which of the following reduction read	b) molarity d) %v/v	
a) $Ag^{+} + e^{-} \iff Ag$ b) $Ce^{+3} \iff Ce^{+4} + e^{-}$ c) $Fe^{+2} \iff Fe^{+3} + e^{-}$ d) All of above		
(5) $10\frac{1}{3} + 6\text{Ti}^{3} + 6\text{H}^{+} = \boxed{A} + 6\text{Ti}^{4}$ Identify A for above mentioned react	tion.	
a) IO.	b) I <sub>2</sub> d) I <sup>+</sup>	
(6) Calculate the pH of a solution contain 0.1 M PlaOH.	b) 9.4	
c) 5.3	d) 3.6	

Which of the following is amphiprotic solvent? b) Anhydrous Acetic acid. (7) a) Dioxane d) None c) Perchloric acid 01 With reference to Ostwald's theory of Indicator choose the most appropriate (8)chemical reaction.  $H^{+}$ b) HIn colour B  $In_{red}$ a)  $In_{ox} + ne^{-}$ colour A colour B colour A d) none c) a and b both 01 Following are the types of standards used for analysis. (9) (b) Tertiary (a) Primary (d) Both (a) & (c) (c) Secondary 01 (10)Equivalence point What will be best choice of indicator for above mentioned neutralization curve? b) D a) A d) B c) C Long Answers: (Any One) What is Quality Control and Quality Assurance? What is the importance 10 (1) of Pharmaceutical Analysis for controlling the quality of drug? Classify various analytical techniques for pharmaceutical analysis. Explain buffers and how they act. (2)10 Derive Henderson hasselbatch equation. Short answers (Any two) Write a note on Indicators used in redox titration. (1) 05 (2) Explain levelling and differentiating effects of solvent with examples.

Enlist different types of redox titrations and explain any one in detail.

Q.2

0.3

(3)

05

05