Seat No:

Enrollment No:\_\_\_\_

## PARUL UNIVERSITY

## **FACULTY OF APPLIED SCIENCE B.Sc**, Winter 2017-18 Examination

Semester: 1 Date: 20/12/2017

Subject Code: 11107102 Time: 10:30am to 01:00pm

Subject Name: Basics of Forensic Biology Total Marks: 60

## **Instructions:**

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.

3. Make	e suitable assumptions wherever necessary.	
	new question on new page.	
<b>Q.1. A</b> )	Essay type	(08)
	Differentiate between Cell Structure of Prokaryotes and Eukaryotes.	
Q.1. B)	Answer the following questions (Any two)	
	(a) Short note	(04)
	1.Beer Lambert's law	
	2. Origin of Life	
	(b) Describe the components of blood.	(04)
	(c) Describe pure culture technique of a microorganism.	(04)
Q.2. A)	Answer the following questions.	
	(a) Define: (2x2)	(04)
	1. Chromatography	
	2. Electrophoresis	
	(b) Define acid, base and buffer in short?	(04)
Q.2. B)	Answer the following questions (Any two)	
	(a) Define: (Each of 01 marks)	(03)
	1. Immunity	
	2. Taxonomy	
	3. Antigen	
	(b) How are gymnosperms classified?	(03)
	(c) Differentiate between colorimetry and spectrophotometry?	(03)
<b>Q.3. A</b> )	Essay type.	(08)
	Describe properties, classification and functions of carbohydrates?	
Q.3. B)	Answer the following questions (Any two)	
	(a) Brief note (2x2)	(04)
	1. Western blot	
	2. Southern blot	
	(b) State the applications of Chromatography	(04)
	(c) Short note on ELISA	(04)
<b>Q.4. A</b> )	Answer the following questions.	
	(a) Brief note (2x2)	(04)
	1. Compound Microscope	

## (b) Enlist the functions of proteins?Q.4. B) Answer the following questions (Any two)

2. Dark field microscopy

Answer the following questions (Any two)	
(a) Short note on sex linkage of genes.	(03)
(b) Describe structure of DNA.	(03)
(c) Describe Mendelian laws of inheritance.	(03)

(04)