Seat No:	Enrollment No:	
PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc., Winter 2019-20 Examination		
Semester: 1	Date: 02/12/2019	
Subject Code: 11209116	Time: 10:30am to 1:00pm	
Subject Name: Advanced physiology	Total Marks: 60	
Instructions:		
1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1. A) Brief note (4x2) (Each of 04 marks)	(08)	
(a)Structure and function of muscles		
(b)The neuroendocrine axis-role of releasing factors and feedback	responses.	
Q.1. B) Answer the following questions (Any two)		
(a) Brief note (2x2) (Each of 02 marks)	(04)	
1) Humoral responses of Hormones		
2.Role of interleukins		
(b) Water balance by kidney	(04)	
(c)Short note:Osteoporosis	(04)	
Q.2. A) Answer the following questions.		
(a) Brief note (2x2) (Each of 02 marks)	(04)	
1.Full form of GMCSF and MCSF	, ,	
2. What is lactation		
(b) Types of Anemias	(04)	
Q.2. B) Answer the following questions (Any two)		

(Each of 01 marks)

B) Plasma cells

D) Lymphocytes

1) ______ bones consist of two outer layers of compact bone and an inner layer of

(03)

(03)

(03)

(08)

(04)

(04)

(**04**) Page **1** of **2**

(a) Multiple choice questions.

2) Which one engulf foreign materials

3) Bones are composed of _____ and ____ tissues.

(b) Explain in brief about reproductive hormones in endocrine system

2.Explain blood pressure control by kidney

spongy bone.

A) MacrophagesC) Mast cells

(b) Short note: Alkalosis

Q.3. A) Essay type (Each of 04 marks)

(c) Short note: HIV/AIDS

(a)Name different type of bones

Q.3. B) Answer the following questions (Any two)

1.Role of ADH

(b)Gastric emptying and regulation

(a) Brief note (2x2) (Each of 02 marks)

(c)Role of Kidney in maintaining pH of blood

(a) Brief note (2x2). (Each of 02 marks) (04)1. Which are types of muscles 2. GFR (b) Explain Menstrual cycle (04)Q.4. B) Answer the following questions (Any two) (Each of 01 marks) (a)Do as directed (03)1) Bones are mostly made of the protein _____. 2)Reduction of Co2 in body leads to____ 3) Which of the following is an example of osmosis? A) A plant's roots use osmosis to B) The human body uses osmosis to absorb water from soil move antibodies out of cells C) A single celled organism uses D) Intestinal cells use osmosis to osmosis to take in food particles absorb nutrient from food (b) Vitamin A impact on immune system (03)

Q.4. A) Answer the following questions.

(c) Short note on cell mediated immunity

(03)