Seat No:	Enrollment No:
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PARUL UNIVERSITY

FACULTY OF APPLIED SCIENCE

M.Sc., Summer 2018-19 Examination

Semester: 2 Date:12-04-2019 **Subject Code:11209158** Time:10:30am to 01;00pm **Subject Name: Applied 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) Essay type (4x2) (Each of 04 marks) Both Compulsary (08)(a)Structure of skin and its role in body temperature (b)Life long-Nutrition based approaches for a healthy life for women Q.1. B) Answer the following questions (Any two) (a) Brief note (2x2) (Each of 02 marks) (04)1. Malnutrition Cycle 2.Explain blood composition (b)Explain 5 properties of muscles. (04)(c)Explain secondary ossification (04)Q.2. A) Answer the following questions. (a) Brief note (2x2). (Each of 02 marks) (04)1.Draw and label diagram of heart. 2. Name reproductive hormones. (b) Name the parts of brain. (04)Q.2. B) Answer the following questions (Any two) (a) Multiple choice questions. (Each of 01 marks) (03)1)Insulin is a a) Vitamin b) Lipid Hormone Enzyme

2)ADH or vasopressin is

	b)	Hormone secreted by pituitary that promotes reabsorption of water from glomerular filtrate	
	c)	Hormone that promotesglycogenolysis	
	d)	Energy rich compound connected with muscle contraction	
	3)Which one of the following endocrine glands stores its secretion in the extracellular space before discharging it into the blood?		
	a)	Testis	
	b)	Thyroid	
	c)	Pancreas	
	d)	adrenal	
	(b)	Name parts of endocrine system	(03)
	(c)	Short note: Draw figure of primary ossification.	(03)
Q.3.	A) Bri	ef note (4x2) (Each of 04 marks) Both Compulsary	(08)
	(a)	Explain bone formation	
	(b)	Impact of infection on nutrient absorption utilization and function.	
Q.3.	B) Ans	swer the following questions (Any two)	
(a) Brief note (2x2)(Each of 02 marks)			(04)
	1.	Hormonal Endocrine glands – General functions	
	a.	Pituitary	
b. Thyroid			
	c. Parathyroid d. Pancreas		
	e	Adrenal	
	f. S	Sex glands (male and female)	
	2	2.Role of Tcell and B cell	
	(b)	Explain function of hypothalamus.	(04)
	(c)	Explain reproductive hormones	(04)
Q.4.	A) Ans	swer the following questions.	
	(a)	Brief note (2x2) (Each of 02 marks)	(04)
	1.	What is parturition.	
	2.1	Explain coagulation	
	(b)I	Explain Menstruation	(04)
Q.4.	B) Ans	swer the following questions (Any two)	
	(a)	Multiple choice questions. (Each of 01 marks)	(03)
	1.V	Which hormone stimulates the secretion of milk fron female?	
	a)	Oxytocin	

a) Enzymes that hydrolyses peptides

c) LH Prolactin. 2. Which of the following is an accumulation and release centre of neurohormones? Anterior pituitary lobe Posterior pituitary lobe b) Intermediate lobe of the pituitary c) d) Hypothalamus 3. What are dark bands that define the two ends of each sacromeres called Myosin b) Actin **Z**-lines c) Sacromeres (03)(b) Short note: Autoimmunedisorders & AIDS, HIV (c) Short note: Thyroid gland (03)

Progesterone

b)