Enrol	lment	No.	

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-III (NEW) EXAMINATION – WINTER 2020 Subject Code:3130304 Date:10/03/2021				
Subj	ect]	Name:Human Anatomy & Physiology-I		
1 ime Instru		:30 AM TO 12:30 PM Total Ma	arks:56	
mstru	1.	Attempt any FOUR questions out of EIGHT questions. Make suitable assumptions wherever necessary.		
	3.	Figures to the right indicate full marks.	Marks	
Q.1	(a)) Define Following Terms: 1. Embryology 2. Development Biology 3. Homeostasis	03	
	(b)) Enlist and explain characteristics of living human organism.	04	
	(c)	Explain negative and positive feedback system for homeostasis with example.	07	
Q.2	(a)) Explain ions, molecules and compounds with example.	03	
	(b)		04	
	(c)) Draw and explain structure of a plasma membrane with its major functions.	07	
Q.3	(a)) Define Following Terms: 1. Albinism 2. Vitiligo 3. Dermatology	03	
-	(b)		04	
	(c)	state the characteristics of each. Explain classification of Epithelial tissue with structure.	07	
Q.4	(a)) Describe the main functions of the skeletal system.	03	
	(b)	· · ·	04	
	(c)	Describe the layers of the epidermis and the cells that compose them.	07	
Q.5	(a)	Define Following Terms: 1. Abduction 2. Adduction 3. Circumduction	03	
	(b)) Describe the structural and functional classifications of joints.	04	
	(c)	Describe and Classify bones based on their shape or location.	07	
Q.6	(a)) Describe the functions of blood.	03	
-	(b)		04	
		structures ensure that the valves operate properly?	07	
	(c)	Draw and explain gross structure of heart.	07	
Q.7	(a)		03	
	(b)		04	
	(c)	Explain basic structure of a blood vessel.	07	
Q.8	(a)	· ·	03	
	(b)		04	
	(c)	How is minute ventilation calculated? Explain structure and function of lungs.	07	
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