

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- III EXAMINATION - SUMMER 2020

Subject Code: 2130304 Date:28/10/2020

Subject Name: HUMAN ANATOMY & PHYSIOLOGY

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Explain Structure & Function of Mitochondria.	03
_	(b)	Define: Superior, Inferior, Anterior, Posterior	04
	(c)	Draw and Explain Neat Structure & Functions of cell.	07
Q.2	(a)	What is Homeostasis?	03
	(b)	Enlist Functions of Blood.	04
	(c)	Give Basic Classification of tissue and Explain Epithelial Tissues in detail with neat Diagram.	07
		OR	
	(c)	Explain Structure of Human heart with necessary Diagram.	07
Q.3	(a)	Define: TV, IRV, RC	03
	(b)	Explain Blood Flow through the Heart.	04
	(c)	Define: Inspiration & Expiration & Explain Muscles of Respiration detail.	07
		OR	
Q.3	(a)	Draw ECG waveform and Define cardiac Output.	03
	(b)	Write a Short Note on heart Sound.	04
	(c)	Draw neat labeled Structure of Respiratory System and Explain mechanism of	07
		Respiration in detail.	
Q.4	(a)	Define: Mastication, deglutination	03
۷۰.	(b)	Draw neat Labeled Diagram of Human Eye.	04
	(c)	Draw neat labeled Diagram of Human Brain & Explain Mid brain with their	07
	(-)	Functions.	
		OR	
Q.4	(a)	Draw neat Labeled Diagram of neuron.	03
	(b)	Write a Brief Note on Synovial Joints.	04
	(c)	Draw and Explain Structure of Ear and Physiology of Hearing.	07
Q.5	(a)	State Functions of Liver.	03
	(b)	Explain structure & Functions of Large & small Intestine.	04
	(c)	Explain Physiology of Urine Formation detail.	07
		OR	
Q.5	(a)	Explain Physiology of micturition	03
	(b)	Draw neat labeled Structure of Digestive System.	04
	(c)	Give Classification of Muscle & Explain Physiology of Muscle Contraction.	07
