

www.FirstRanker.com www.FirstRanker.com
GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– III (New) EXAMINATION – WINTER 2019

Subject Code: 3130304

Date: 28/11/2019

Subject Name: Human Anatomy & Physiology-I

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) Define terms: 1. Anatomical Position, 2. Proximal, 3. Distal.	03
	(b) Describe different types of Body planes with necessary figures.	04
	(c) Draw different levels of structural Organization and Explain any two Cell organelles in detail.	07
Q.2	(a) Describe Main Functions of bones.	03
	(b) Draw and Explain General structure of a long bone.	04
	(c) Describe The bones of the thorax or thoracic cage in detail.	07
	OR	
	(c) Explain structure and Function of Plasma membrane.	07
Q.3	(a) Enlist Functions of the Heart.	03
	(b) Draw neat labeled diagram of Human Heart.	04
	(c) Describe structure and Function Thymus gland.	07
	OR	
Q.3	(a) Draw a figure of systemic circulation.	03
	(b) Write a short note on Homeostasis.	04
	(c) Explain cardiac conduction system with proper diagram.	07
Q.4	(a) Define: Tidal Volume, Inspiratory Reserve Volume, And Expiratory Reserve Volume.	03
	(b) Draw a figure of The organs of respiration.	04
	(c) Explain Cycle of respiration.	07
	OR	
Q.4	(a) Define: Functional Residual Capacity, Residual Volume, and Vital Capacity.	03
	(b) Draw a neat diagram which shows composition of blood.	04
	(c) Give the reason: Transport of blood oxygen and carbon dioxide is essential for internal respiration to occur.	07
Q.5	(a) Which are main functions of the skin?	03
	(b) Write a short note on Nails.	04
	(c) Compare and contrast the processes of primary and secondary wound healing.	07
	OR	
Q.5	(a) Explain Mechanisms of heat loss.	03
	(b) Describe the composition and the main functions of Lymph.	04
	(c) Describe the structure of the skin.	07
