Seat No.: Enrolment No			
GUJARAT TECHNOLOGICAL UNIVERSITY			
BE - SEMESTER-III(New) • EXAMINATION – WINTER 2016 Subject Code:2130304 Date:04/01			R 2016 Date:04/01/2017
Subject Name: Human Anatomy & Physiology			
·			Total Marks: 70
Instru			I otal Marks. 70
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1		Short Questions	14
=	1	Organelle is referred as Power House of cell.	
	2	Give Normal value of Blood Pressure.	
	3	What is the Normal value of Blood pH?	
	4	Explain: Erythropoiesis	
	5	What is Mastication?	
	6	What is Deglutination?	
	7	What is the Functions of Ciliary Muscles in Human eye?	
	8	Differentiate between: Axon and Dendrites.	
	9	Differentiate between: Superior and Inferior.	
	10 11	Give major Properties of cardiac Muscle.  How many vertebras are there in vertebral column?	
	12	·	
	13	÷ •	tic nervous s
	10	system?	ner vous s
	14		
<b>Q.2</b>	(a)		03
		Draw neat Diagram of Cell.	04
	(c)	Give Classification of Epithelial Tissue and Explain any one of <b>OR</b>	them. <b>07</b>
	(c)	Give Classification of Muscle Tissue and Explain any one of the	nem. <b>07</b>
Q.3	(a)	1	03
	<b>(b)</b>	<u> </u>	04
	(c)	Explain Mechanism of Respiration in detail with necessary diagonal or OR	gram. <b>07</b>
Q.3	(a)		03
	<b>(b)</b>	Explain Conduction system of Human Heart.	04
	<b>(c)</b>		07
<b>Q.4</b>	(a)	1	03
	(b)		04
	(c)	Give Classification of Joints. And Explain various synovial Joi <b>OR</b>	nts. <b>07</b>
<b>Q.4</b>	(a)		03
	(h)	Explain Process of Rone formation	04

(c) Explain generation of Muscle Potential and Physiology of Muscle

Contraction in detail.

**(b)** Explain cardiac Cycle.

Q.5 (a) Define: VC, TLC, RC

**Q.5** (a) What is synapse? Give importance of Neurotransmitters.

**07** 

03

04

1

- (b) What are the major functions of Large and Small Intestine in a process of **04** Digestion?
- (c) Enlist different parts of Human Brain and Explain cerebrum and cerebellum 07 in detail.

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