C ANT	T 1 . NT
Seat No.:	Enrolment No.

Subject Code:2130304

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III(New) EXAMINATION - SUMMER 2016

Date:31/05/2016

Subject Name: Human Anatomy & Physiology								
Time:10:30 AM to 01:00 PM					ks: 70			
Instru	ictio	as:						
	1.	Attempt all questions.						
	2.	Make suitable assumptions wherever	er n	ecessary.				
	3.	Figures to the right indicate full ma	rks.	,				
					MARKS			
Q.1		Select the correct answer from m	milt	inle choice questions	14			
Q.1	1	Select the correct answer from multiple choice questions. The blood vessels having the most elastic tissue are						
	1	A Capillaries B Veins						
		C Lymphatics	D	Arteries				
	2	The normal life span of erythrocytes is	_					
	_	A 80 days	В	90 days				
		C 110 days	D	120 days				
	3	The process of blood cell formation is						
	·	A Erythropoeisis	В	Haemopoiesis				
		C Haemolysis	D	Epiphyses				
	4	The system consisting of the heart and						
	-	A Endocrine system		Lymphatic system				
		C Circulatory system	D	Nervous system				
	5	cavities are spaces within jo	oint	•				
	•	A Nasal	В	Synovial				
		C Orbital	D	Oral				
	6	Which muscle cell compound stores o	xyg	en?				
		A Creatine phosphate		Glycogen				
		C Haemoglobin	D	Myoglobin				
	7	Which body cavity protects the nervoi	us s	ystem?				
		A Cranial	B	Dorsal				
		C Vertebral	D	Thoracic				
	8	One of the following is a branch of the hepatic artery						
		A Cystic	B	Splenic				
		C Gastrohepatic	D	Oesophageal				
	9	Response to light leading to vision is i	initi	ated in which of the following cells?				
		A retinal pigment epithelial cells	B	rod cells				
		C both rods and cones		Cone cells				
	10	Elimination of metabolic wastes from	the	body is the function of the				
		A urinary system	B	lymphatic system				
		C endocrine system	D	nervous system				
	Where would you find white fibrous tissue?							
		A In the wall of the large intestine	B	In the appendix				
		C In the fascia of muscles and	D	In the lymph nodes				
		tendons						
	12	Which of the following is correct about	ut th					
		A There is one kidney deep to the	B	The kidneys are bilateral and				
		liver		retroperitoneal				
		C The left kidney is lower than	D	The kidneys are in the anterior				
		the right abdominal wall						
	13	General characteristics of normal urin						
		A specific gravity	B	bacteria				
		СрН	D	A and C only				
	14	To initiate and accomplish inspiration	in l	numans, which of the following occurs?				

		 A Pacemaker cells in the lungs are activated B Muscles cause the ribs to move closer to the spinal cord C Lungs and chest wall pull apart from each other D The diaphragm contracts and moves into the abdominal cavity 				
Q.2	(a)	1 7 67				
	(b) (c)	Explain the capacity of different types of tissue to regenerate. Describe the structure and function of the tongue. OR				
	(c)	Outline the structure and functions of membrane.				
Q.3	(a) (b) (c)	Name the main muscles of the face and neck. Compare and contrast active, passive and bulk transport of substances across cell membranes. Illustrate the mechanisms involved in swallowing, and the route taken by a				
		bolus. OR				
Q.3	(a) (b) (c)	List the functions of retina. Define the term 'Mutation'. Illustrate the structure of the oesophagus	03 04 07			
Q.4	(a) (b) (c)	List the contents of the body cavities. Summaries the role of saliva in digestion. Relate the structure of the nasal cavities to their function in respiration OR				
Q.4	(a) (b)	List the principal structures associated with the mouth. Identify the principal bones of the axial skeleton and the appendicular skeleton.				
	(c)	Relate the structure of the pharynx to its function.	07			
Q.5	(a)	List and define movements possible at synovial joints.				
	(b) (c)	Outline the physiology of olfaction. Briefly describe the structure of the bladder. OR	04 07			
Q.5	(a)	List various types of joints.	03			
-	(b) (c)	Outline the nerve and blood supply of the alimentary canal. Briefly describe the structure and function of the urethra in males and females.	04 07			
