C		Reg. No. :												
Question Paper Code: U2B04														
B.E./B.Tech. DEGREE EXAMINATION, NOV 2022														
Second Semester														
Biomedical Engineering														
21UBM204- Human Anatomy And Physiology														
(Regulations 2021)														
Duration: Three hours Maximum							num	: 100	Ma	ks				
Answer All Questions														
PART A - $(5x 1 = 5 Marks)$														
1.	Which of the following is a functional unit of a body?										CO	1 - U		
	(a) Mitochondria (b) Cytoplasm (c) Spleen (d) Cell													
2.	Natural Pacemaker of heart is										CO	1 - U		
	(a) AV node (b) SA node (c) Bundle of HIS (d) Ver							entr	icle r	nusc	les			
3.	is a quick response to the stimuli that passes the brain.							CO	1 - U					
	(a) Reflex action (b) Voluntary action (c) Knee jerk (d) R							Reco	eceptors					
4.	Out of the following	, which is a majo	or sect	retory	y lay	er of	fthe	GI tı	act?				CO	1- U
	(a) Mucosa	(b) Submu	icosa		(c) N	Auso	culari	is	(d) S	erosa	a			
5.	The presence of wha	t makes the mat	rix of	bone	s hai	rd?							CO	1 - U
	(a) Phosphate salts	(b) Chondroitir			<i>,</i>		m sa	lts	(d)	Sod	ium	salts		
PART - B (5 x 3 = 15 Marks)														
6.	What is the significance of studying human anatomy and physiology forCO3- Anabiomedical engineering?						18							
7.	"Excitability is the property of cardiac muscle"-justify the statement								CO3- Ana					
8.	What is myelin sheath? What function does it perform for lungs?								CO1- U					
9.	Write the 5 process of digestive system.								CO1- U					
10.	Name different refractory errors of the eye.								CO	1- U				

PART - C	$(5 \times 16 =$	80Marks)
----------	------------------	----------

11.	(a)	Elucidate the structure and function of cell with neat diagram.	CO1-U	(16)				
Or								
	(b)	Explain the structure and function of cell with neat diagram.	CO1-U	(16)				
12.	(a)	List out the characteristic features of Pulmonary blood vessels. Or	CO1-U	(16)				
	(b)	Explain in details about the chambers of the heart with circulation of blood.	CO1-U	(16)				
13.	(a)	Explain the functional anatomy of brain. Or	CO1-U	(16)				
	(b)	Write the difference between sympathetic and parasympathetic nervous system.	CO1-U	(16)				
14.	(a)	Explain in detail about the nephron and the urinary bladder. Or	CO1-U	(16)				
	(b)	Explain the structure and functions of Gastro Intestinal Tract with neat diagram.	CO1-U	(16)				
15.	(a)	Explain in detail about skeletal system. Or	CO1-U	(16)				
	(b)	Elucidate in detail about bone and its types.	CO1-U	(16)				