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			D.Pha	ırm. Fi	rst Yea	ır Fina	al Examination	
			HUMA	AN AN	ATOM	AND	PHYSIOLOGY	
Full	Mar	ks –						Time - Three hours
		Т	he figures in tl	ne marş	gin indic	cate ful	l marks for the o	uestions.
1.	Ans	wer	the following (MCQ) :				$(20 \times 1 = 20)$
	(i)	Wh	ich of the cell	organel	le is als	o know	n as the "Suicide	bag of cell"?
		(a)	Ribosome		71.6	(b)	Lysosome	
		(c)	Nucleus			(d)	Mitochondria	
	(ii)	i) Which of the smallest bone of human body?						
		(a)	Stapes			(b)	Incus	
		(c)	Ribs			(d)	Radius	in a second
	(iii) Which of these following is a lymphatic organ?							
		(a)	Blood			(b)	Kidney	
		(c)	Spleen			(d)	Heart	
	(iv) Angiotensinogen is secreted from which organ?							
1 2		(a)	Juxtaglomerular apparatus in the Kidney					
		(b)	Liver				10 300	
37		(c)	Adrenal Glar	ıd				
	12	(d)	Lungs					
	(v)	Whi	ch is the horn responsible fo	none is r RBC	secrete producti	ed from	the peritubula	r cells of the kidney
		(a)	Growth horm	one		(b).	Erythropoietin	W / W / W / W / W / W / W / W / W / W /
20		(c)	Oxytocin			(d)	Adrenalin	

	(V1)	w n	ich organ is responsible for the	produ	action of Sound?
	3.	(a)	Alveoli	(b)	Larynx
		(c)	Lungs	(d)	Pharynx
	(vii)	Sph	ygmomanometer is used to me	asure	
		(a)	Blood Pressure	(b)	Respiratory volumes
		(c)	RBC Count	(d)	WBC count
	(viii)) Wh	at is the function of Type I alv	eoli?	
		(a)	Forms alveolar wall	(b)	Secrete alveolar fluid
		(c)	Helps in digestion of food	(d)	None of the above
	(ix)	The	ventricles of the brain contain	1?	
		(a)	Blood	(b)	Cerebro Spinal Fluid (CSF)
		(c)	Perilymph	(d)	Endolymph
	(x)	Jun	action between two nerves is ca	lled.	
	*	(a)	Synapse	(b)	Neuron
		(c)	Receptor	(d)	Vesicles
	(xi)	The	e light bands of muscle fibres a	re cal	led:
		(a)	I band	(b)	Z band
		(c)	A band	(d)	D band
	(xii)	The	e endoplasmic reticulum of the	musc	le fiber is called
	*	(a)	Sarcomere	(b)	Sarcoplasmic reticulum
	100	(c)	Sarcoplasm	(d)	None of the above
	(xiii) Vol	ume of air that remains in the	lungs	s after forceful expiration is calle
		(a)	Residual volume	(b)	Tidal Volume
		(c)	Vital capacity	(d)	Respiratory reserved volume
	(xiv	The	e functional unit of kidney is ca	alled -	
ě.		(a)	Neuron	(b)	Cortex
		(c)	Nephron	(d)	Inner medulla
	(xv)	Wh	aich is t <mark>he outermos</mark> t la <mark>ye</mark> r of tl	ne me	ninges?
		(a)	Dura Mater	(b)	Arachnoid Mater
		(c)	Corpus callosum	(d)	Pia Mater

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in which part of the least

	(xvi)	Med	ulla is present in which part of	athe t	main!			
		(a)	Brain stem	(b)	Cerebrum			
		(c)	Cerebellum	(d)	Thymus			
	(xvii) Which hormone is secreted from Adrenal gland?							
		(a)	Insulin	(b)	Glucagon			
		(c)	Aldosteron	(d)	Somatostatin	- 1		
	(xvii	i)Wh	ich of the following is an enzyr	ne of	saliva?			
		(a)	Water	(b)	Salivary amylase			
		(c)	Pepsinogen	(d)	Gastric lipase			
*	(xix)	Ves	tibulocochlear nerve is respons	ible f	or?			
		(a)	Taste	(b)	Vision			
		(c)	Smell	(d)	Hearing and balance			
	(xx)	(xx) Which of the following cells secret Progesterone?						
		(a)	Leydig cells	(b)	Corpus luteum			
		(c)	Sperm	(d)	Sertoli cells			
	Ans	wer	any Eight questions		$(8 \times 5 =$	40)		
	(a)	Exp	olain the physiology of internal	and	external respiration.	(5)		
	(b)	Classify epithelial tissue. Explain the structure and location of any two types of epithelial tissue. (1+4)						
	(c)	Classify Joints. Write the properties of synovial joints. (5)						
	(d)	Classify Leukocytes. What is the structure and function of each types (1+4)						
	(e)	Explain the functions of different hormones secreted by pituitary gland. (5)						
	(f)	Describe the ABO blood grouping. (5)						
	(g)	Explain the process of urine formation. (5)						
	(h)	Draw a neat labelled diagram of ear and explain its various parts. (5)						
	(i)	Describe the anatomy and functions of the liver. (5)						
	(j)		plain the anatomy of male rep			(5)		

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3.	Ans	wer a	iny two questions Azeri. Hatkin apara,	$(2 \times 10 = 20)$
	(a)	(i)	Draw a neat labelled diagram of the neuron.	(2)
	a a	(ii)	Explain the functional areas of cerebrum.	(8)
	(b)	(i)	Define Cell.	(2)
		(ii)	Draw a neat labelled diagram of a cell.	(2)
		(iii)	Describe the structure and function of plasma membrane.	(6)
	(e)	(i)	Draw a neat labelled diagram of internal heart.	(2)
		(ii)	Explain the conduction system of the heart.	(4)
		(iii)	Explain the different waves of ECG.	(4)