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B.Pharm. 1st Semester End-Term Examination																
			HU	MAN	ANA	TOI	MY	AN	DP	HYS	SIOLOG	3 Y –	I			
Ful	l Mar	ks-	75										Time	- Thi	ree hou	rs
		Tl	ne figures	in the	mar	gin i	indi	cate	ful	l ma	rks for t	he g	uestio	ns.		_
(4)	7/1-1											200				
1.	Mul	tipie	choice qu	lestion	s (MC	JQ/ .	Ans	swer	all	que	stions):			(20	$0 \times 1 = 2$	0)
(i) Which of the following organelle/s serves as a primary packaging area is molecules that will be distributed throughout the cell?									area f	or						
		(a)	Golgi ap	parati	ıs				(b)	Mi	tochond	ria				
		(c)	Nucleus					- 1	(d)	Во	th (a) ar	nd (c)				
(ii) Hip joint is a type of ———————————————————————————————————																
		(a)	Gliding	joint					(b)	Hi	nge join	t				
		(c)	Pivot joi	int					(d)	Ba	ll and so	ocket	joint			
(iii) Which of the following is known as Cranial nerve-I?																
		(a)	Optic						(b)		actory					
		(c)	Facial						(d)		gus					
(iv) Lymphatic system consists of —																
		(a)	Lymph					1	(b)	Sp.	leen					
		(c)	Thymus	gland					(d)	All	of the a	bove				
(v) ———— does not perform the functi								tion	of phage	ocyto	sis.					
		(a)						(b) Basophils								
		(c)	Monocyt	tes					(d)	Eos	sinophil	S				
3														[T	urn ove	er

(V1)	In t	he middle ear, stirrup-shaped	bone 1	s called as ———.					
	(a)	Stapes	(b)	Malleus					
	(c)	Incus	(d)	Temporal bone					
(vii)	The muscle which rotates the arm and the palm upwards is								
	(a)	Supinator	(b)	Pronator					
	(c)	Flexor	(d)	Rotator					
(viii)) Car	diac output is about —	L	of blood.					
	(a)	3	(b)	5					
	(c)	15	(d)	50					
(ix)	Gus	statory cells are found in the —							
	(a)	Nose	(b)	Tongue					
	(c)	Ear	(d)	Eyes					
(x)	A st	tudy dealing with the explanat	ion of	how an organ works is known as					
	(a)	Anatomy	(b)	Cytology					
	(c)	Teleology	(d)	Physiology					
(xi)	Wh	ich structure within the cell pr	oduce	es ATP?					
	(a)	The mitochondria	(b)	The nucleus					
	(c)	Peripheral proteins	(d)	The endoplasmic reticulum					
(xii)		at substance is produced bagulation) process?	y the	e first step in the blood clotting					
	(a)	Prothrombinase	(b)	Factor X					
	(c)	Prothrombin -	(d)	Thrombin					
(xiii) The	e largest bone in the human bo	dy is						
	(a)	Femur	(b)	Tibia					
œ	(c)	Skull	(d)	Spine					
(xiv) Wh	ere does the stimulation of mu	scle f	ibres by a motor neuron take place?					
	(a)	Myofibril	(b)	Neuromuscular junction					
	(c)	Transverse tubules	(d)	Sarcoplasmic reticulum					

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(xv)	'He	mopoiesis' refers to	BINA CHOWDHURY CENTRAL LIBRARY (GIMT & GIPS)							
	(a)	The creation of RBCs in a	a hypoton	ic solution	Azara, haikhovapara Guwahati – 781017					
	(b) The process of blood clotting									
	(c)	The process of blood cell formation in the bone marrow								
	(d)	An excessively large proportion of RBCs to plasma								
(xvi) Wh	ich of the following is not t	he functio	on of skin?						
	(a)	Calcium production	(b)	Excretion	of wastes					
	(c)	Protection	(d)	Temperatu	re regulation					
(xvi	i) Wł	nich of the following is not	a compone	ent of the ce	ll plasma membrane?					
	(a)	Cholesterol	(b)	Microfilam	ents					
	(c)	Proteins	(d)	Phospholip	pids					
(xvi	ii) RI	3C lives for ———— d	lays.							
	(a)	56	(b)	72						
	(c)	102	(d)	120						
(xix)) Wh	ich of the following bone in	humans	is called the	beauty bone?					
	(a)	Maxilla	(b)	Fibula						
	(c)	Clavicle	(d)	Sternum						
(xx)	Bon	es are connected to each of	ther by							
	(a)	Cartilage	(b)	Ligaments						
	(c)	Collagen	(d)	Tendons						
Sho	rt an	swers (Answer any seven)			$(7 \times 5 = 35)$					
(a)		fine intracellular signaling. Discuss the different forms of intracellular naling.								
(b)		me the bones of the cranium. Differentiate between axial and bendicular skeleton.								
(c)	Wha	hat is ECG? Briefly explain each component of ECG.								

Define and classify joints. Write a note on synovial joints with examples. BP 101 T [Turn over

Write a note on the physiology of skeletal muscle contraction.

sympathetic and parasympathetic nervous system.

Classify the peripheral nervous system. Differentiate between

2.

(d)

(e)

(f)

- (g) Define cell junction. Write a note on different types of cell junctions.
- (h) Draw a neat labelled diagram of the cell and mention one function of each organelle.
- (i) Define and elaborate on blood grouping. Write its significance in blood transfusion.
- 3. Long Answers (Answer any two):

 $(2 \times 10 = 20)$

- (a) (i) Explain the conducting system of the heart with a neat labelled diagram. (5)
 - (ii) Discuss the anatomy of the ear with a suitable diagram. Mention two important functions of the ear. (5)
- (b) (i) Write the composition and functions of blood.

(5)

- (ii) Explain the lymphatic circulation and functions of the lymphatic system. (5)
- (c) Classify tissues with examples. Write the structure, location and functions of epithelial and connective tissue. (4+3+3)