Seat No: _____ Enrollment No: ___

PARUL UNIVERSITY

	FACULTY OF PI				
Sem	B. Pharm.Winter 2019 tester:2	-20 Examination	Date:20/11/2019		
	ject Code: BP201T	Time:02:00 pm to 05:00pm			
	ject Name: Human Anatomy and Physiology-II (The	ory)	Total Marks: 75		
	ructions:			_	
	gures to the right indicate maximum marks.				
2. N	ake suitable assumptions wherever necessary.				
0.1	Multiple Choice Questions (MCQs) (1 Mark Each)		(20)	
_	The central nervous system includes all the following c	omponents, except	(=0	,	
	a) spinal cord	b) medulla oblonga	 .ta		
	c) autonomic ganglia	d) diencephalon			
2.	Most sensory receptors	, 1			
	a) are stimulated by different types of stimuli				
	b) are stimulated only by specific stimuli				
	c) possess a high threshold for their specific stimul	li			
	d) only 'b' and 'c' are correct				
3.	One example of a function of neuroglial cells is to				
	a) Add myelin to axons				
	b) Produce neurotransmitters				
	c) Bind neurotransmitters				
	d) Link one neuron cell to another at the synapse				
4.	An involuntary response by the nervous system to a stir	mulus is a			
	a) Synapse	b) Reflex			
	c) Motor response	d) Smooth muscle			
5.	The axon has voltage gated ion channels. The term "vo				
	a) Ion channels open and close because of changes		age.		
	b) Neuron voltage is controlled by neuroglial cells				
	c) Ion gates will not respond unless the neuron is i	n the CNS.			
_	d) Voltage can only be controlled by a reflex.	4h a a4 if 4h a 1ian a	anne a comment de mana e do		
0.	Digestion of which of the following would be affected		were severely damaged?		
	a) carbohydratesc) proteins	b) lipids d) All of these wou	ld be affected equally.		
7.			id be affected equally.		
7.	a) Secrete digestive enzymes.	b) Break down hem	noglobin		
	c) Regulate the release of bile.	d) Reabsorb water			
8.	The purpose of the intestinal villi is to	a) Itelassors water	irom onyme.		
•	a) Secrete serous fluid to decrease friction among the organs.				
	b) Push the fecal matter into the rectum.				
	c) Secrete mucous to facilitate the movement of ch	nyme through the alin	nentary canal.		
	d) Increase surface area for nutrient absorption.				
9.	Amino acids are almost completely reabsorbed from the	e glomerular filtrate	via active transport in the:		
	a) proximal tubule	b) loop of Henle	_		
	c) distal tubule	d) collecting duct			
10.	K ⁺ excretion is markedly influenced by :				
	a) aldosterone	b) amount of Na ⁺ d	elivered to tubules		
	c) rate of tubular secretion of H ⁺	d) all of the above.			
11.	In the presence of ADH, The distal nephron is least per	meable to			
	a) water	b) ammonia			
	c) urea	d) Sodium.			
12.	Androgens are produced by the				
	a) ovaries	b) testes			

	c) hypothalamus	d) Islets of Langerhans.				
13.	The alpha cells of the pancreas secrete	which targets the				
	a) glucagon; liver	b) melatonin; liver				
	c) glucagon; kidney	d) calcitonin; thyroid				
14.	Which of the following has both endocrine and exocrine functions?					
	a) anterior pituitary	b) thyroid				
	c) adrenal medulla	d) pancreas				
15.	e hormone that stimulates uterine contractions is					
	a) oxytocin	b) estrogen				
	c) granular cell carcinoma	d) progesterone				
16.	The production of testosterone in the interstitial	e in the interstitial cells is stimulated by				
	a) inhibin	b) luteinizing hormone				
	c) follicle-stimulating hormone					
17.	During internal and external respiration, gases move by					
	a) osmosis	b) active transport				
	c) diffusion	d) endocytosis				
18.	he volume of air that can be exhaled after normal exhalation is the					
	a) tidal volume	b) residual volume				
	c) inspiratory reserve volume	d) expiratory reserve volume				
19.	In the lungs					
	a) P_{CO2} in the alveoli is the same as that in the capillaries					
	b) P_{O2} in the alveoli is the same as that in the capillaries					
	c) P_{CO2} in the alveoli is higher than that in the capillaries					
	d) P_{CO2} in the alveoli is lower than that in the capillaries					
20.	Touch receptors					
	a) are found only in the skin	b) are all encapsulated receptors				
	c) include two-element receptors	d) are stimulated by vibration				
	T		(00)			
_	Long Answers (any 2 out of 3) (10 Mark Each		(20)			
	Define and classify nervous system. Explain and					
	Explain mechanism and regulation of respiration					
3.	Discuss structure and functions of stomach. Exp	olain acid production and its regulation.				
0.3	Short Answers (any 7 out of 9) (5 Mark Each)		(35)			
1.	Explain anatomy and functions of liver.		(33)			
2.	Write structure and functions of pituitary gland.					
3.	Discuss physiology of menstruation.					
<i>4</i> .	Write a short note on protein synthesis.					
5.	Explain physiology of urine formations.					
<i>5</i> .	Describe spermatogenesis and oogenesis.					
7.	Write functions of adrenals and pancreas.					
8.	Differentiate sympathetic and parasympathetic r	nervous system				
9.	Explain reflex activity.	ior , out by them.				
٦.	Explain forton activity.					