

BRAINWARE UNIVERSITY

Term End Examination 2019 - 20

Programme - Bachelor of Optometry / Bachelor of Science in Physician Assistant

Course Name - Human Anatomy

Course Code - BOPTO101/BPA101

(Semester - 1)

Time allotted: 2.5 Hours

Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

(Multiple Choice Type Question) $20 \times 1 = 20$ 1. Choose the correct alternative from the following (Answer any Twenty) The basic unit of contraction is the (i) a. Myosin b. Actin c. Z-Lines d. Sarcomeres (ii) The functional partners of bone is a. Tendon b. Ligament c. Skeletal muscle d. Fasciae This is the explanation of how muscles contract action potential? (iii) a. Lock and Key Hypothesis b. Cell Theory c. Mendels laws d. Sliding filament model After intense exercise, what helps repay the body's oxygen debt? (iv) a. Stretching b. Breathing . c. Eating d. Thinking What is the name of the tissues which helps in protection and support of the body? (v) a. Muscular tissue b. Nervous tissue

c. Connective tissue

d. Epithelial tissue

(vi)	Name the epithelium which consists of two or more than two layers of cells that protect the core tissues?						
	a.	Pseudostratified columnar epithelium	b.	Simple columnar epithelium			
	c.	Stratified epithelium	d.	Simple cuboidal epithelium			
(vii)	Name the tissue, which stores triglycerides (fats)?						
	a.	Regular connective tissue	b.	Areolar tissue			
	c.	Adipose tissue	d.	Epithelial tissue			
(viii)	Which of the following is NOT found in axon?						
		Endoplasmic reticulum		Neurofibrils			
	c.	Mitochondria	d.	Microtubules			
(ix)	Which of the following does not act as a neurotransmitter?						
		Acetylcholine		Epinephrine			
	c.	Nor epinephrine	d.	Cortisone			
(x)	Chemical messengers secreted by ductless glands are called						
	a.	Lymph	b.	Platelets			
	c.	Plasma	d.	Hormones			
(xi)	What is the precursor of steroid hormone?						
	a.	Protein		Cholesterol			
	c.	Carbohydrate	d.	Lipid			
(xii)	Name the gland, which releases Neurohormone.						
	a.	Hypothalamus	b.	Pituitary			
	c.	Thyroid	d.	Pancreas			
(xiii)	The endocrine gland responsible for the body's circadian rhythm is the						
	a.	Thymus gland	b.	Pineal gland			
	c.	Parathyroid gland	d.	Pituitary gland			
(xiv)	Which of these is not an endocrine property?						
	a.	Hormones reach target through the blood	b.	Effects are slow and cyclic			
	c.	Rapid acting effects	d.	Effects cause by chemicals			
(xv)		of the following connective ti					
	a.	Periosteum	b.	Pericardium			
	c.	Myocardium	d.	Marrow			

(xvi)	Which cell secretes the matrix for bone formation?					
	a.	Osteoclastoma	b.	Osteoclast		
	c.	Mesoblasts	d.	Osteoblasts		
(xvii)	Which of the following are two types of bone marrow?					
	a.	Red marrow and yellow marrow	b.	Red marrow and white marrow		
	c.	Yellow marrow and white marrow	d.	White marrow and blue marrow		
(xviii)	Choose the correct vertebral formula of vertebral column of human being.					
	a.	C7 Th13 L4 S5 Co4	b.	C7 Th12 L5 S5 Co4		
	c.	C7 Th13 L5 S5 Co4	d.	None of these		
(xix)	The toe bones are called as					
	a.	Phalanges	b.	Tarsal		
	c.	Metatarsals	d.	Talus		
(xx)	The al	l-or-none response means that				
	a.	All of the muscles in a region contract together.	b.	All of the muscle fibers within a muscle contract together.		
	c.	When a muscle fiber contracts, it contracts completely.	d.	When a muscle fiber contracts, all of its ATP is changed to ADP		
(xxi)	In peripheral nervous system the nerves that arise from spinal cord and brain are called as					
	a.	Spinal nerves	b.	Cranial nerves		
	c.	Temporal nerves	d.	Frontal nerves		
(xxii)	Which of the following nerve is purely motor nerve?					
	a.	Trigeminal	b.	Vagus		
	c.	Facial	d.	Abducens		
(xxiii)	Skelet	al muscles are controlled by		The state of the s		
F ₁₁		Somatic nerves	b.	Autonomic nerves		
	c.	Sympathetic nerves	d.	Parasympathetic nerves		

(xxv) Fail	 a. Stimulation of sensory receptors c. Inhibition of sensory receptors ure of the spinal reflexes is mar a. Automatic micturition c. Loss of sensation from regions innervated by the cord below the level of the lesion 	d. nifested by b.	Stimulation of central synap Inhibition of central synap Appearance of Babinski si Disappearance of the tende	ses gn						
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	c. Loss of sensation from regions innervated by the cord below the level of the									
	regions innervated by the cord below the level of the	d.	Disappearance of the tende	on jerks						
	Gi	roup – B								
(Short Answer Type Questions) $4 \times 5 = 20$										
Answer any	four from the following									
2. Write	Write a short note on blood brain barrier.									
	Classify nervous system and explain sympathetic and parasympathetic nervous system.									
4. Classi	Classify the connective tissues with examples.									
6. Write	Write short note on largest endocrine gland in the body.									
7. How d	How does the lymphatic system fight infection?									
	Gr	oup – C								
	(Long Answ	wer Type	Questions)	2 x 10 = 20						
Answer any	wo from the following									
8. What d	o you mean by reflex arc? Descri	ribe the pa	athway of reflex arc.	5+5						
9. Write s Fluid.	Write short notes on Major parts of Brain. Write short notes on Cerebrospinal 5+5									
10. With th	With the help of diagram explain the structure and functions of the heart.									
1. Describe the portal venous system with diagram.										