

## **BRAINWARE UNIVERSITY**

## Term End Semester Examinations, July- 2022

Programme - Bachelor of Science in Nursing

Course Name - Applied Anatomy and Applied Physiology

Course Code - ANAT 105 & PHYS 110

(Semester - I)

Time allotted: 3 hrs.

Layers of the dermis consists all except : -

Basal layer

Reticular Layer

vi)

Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

## Section - A

(Applied Anatomy) Marks - 37  $6 \times 1 = 6$ Group - A (Multiple Choice Question) Select the correct answer of the following:-1. i) Secretion of salivary gland is responsible for starch digestion as it contains enzyme : -Salivary amylase / Plyalin. Pepsin & lipase. Lipase & Protease d Amylase & Lipase ii) Ductless glands are described as:-Endocrine b Paracrine Exocrine d Apocrine iii) Largest lymphatic organ is:-Spleen Thymus b Brain Liver Which of the following is the inner most layer of human eye? iv) Retina b Choroid a Sclera d Cornea Internal carotid artery is the branch of : -V) Basal artery Vertebral artery a b Common carotid artery Anterior cerebral artery d

Papillary layer Pars reticularis

			Group - B (Essay/ Long	g ans	swer type question)	1 x 10 = 10		
	(	(Answer Any One Question	i)					
	2.	<ol> <li>Name the different Endocrine Glands present in the Human Body. Write in details about thyroid glands</li> </ol>						
	3.	Describe the heart with dia	igram under the following	head	lings -	5+3+2=10		
		A. Chambers,						
		B. Valves, C. Blood supply.						
		or Broom suppris.	Group - C (Short answe	er ty	vne question)	3 x 5 = 15		
	11 1	(Answer Any Three Question		175				
	4.	Cerebrospinal Fluid				[5]		
	5.	Long bone				[5]		
	6.	Layers of skin				[5]		
	7.	Mammary gland				[5]		
			Group - D (Very short :	oner	ver tune question)			
	(	Answer Any Three Question		ansv	ver type question)	$3 \times 2 = 6$		
	8.	Deltoid muscles	(113)			F0.3		
	9.	Enlist the type of WBC.				[2]		
	10.	Bowman's Capsule				[2]		
	11.					[2]		
	11.	Hylum of the lungs				[2]		
			Section –	В				
			(Applied Phys	siolo	ogy)	Marks - 38		
1.		Group - A (Multiple Choice Question) Select the correct answer of the following :-				7 x 1 = 7		
i)		When a solvent moves thro	The state of the s	le mi	ambrane, such movement	of the fluid is town		
		as	agn a serven rery permean	CIII	emorane, such movement	of the fluid is term		
		a Diffusion		b	Osmosis			
		c Filtration		d	Active transport			
ii)	The parasympathetic division of nervous system opposes the sympathetic effect and effectively							
		a Increase the heart		b	Reduce the heart rate			
	1	c Increases the cardi	iac contractility					
iii)	7	The fastest conduction velocity is found in						
	а	a SA node.		b	Atrial muscle.			
	c	AV-node.		d	Ventricular conduction s system.	system / Purkinje		

## TEE/ ANAT 105 & PHYS 110 / July-2022

iv)	Which of the following hormone helps in the secretion of HCL from stomach?									
	a	Gastrin	b	Secretin						
v)	During s	Pepsin severe exercise, oxygen consumption is greater	d atest in	Renin						
	a	Brain								
	c	Skeletal muscle	b d	Heart Liver						
vi)	RBC, W	BC and Platelets are produced in the								
	а	Long Bone	b	Red Bone Marrow						
	c	Short Bone	d	Medulary Cavity						
vii)	vii) The absorption of the fats and glyserol takes place in the									
1	a	Ileum	b	Stomach						
13	c	Large intestine	d	Lacteals						
1										
		Group - B (Essay/ Long	g answ	er type question)	1 x 10 = 10					
-	(Answer A	Iny One Question)								
2.	A) Wha	at is Nephron?			3+7=10					
1	B) Desc	cribe the mechanism of urine formation.			2.7.10					
3.										
100										
13	Group - C (Short answer type question)									
	(Answer A	ny Three Questions)			$3 \times 5 = 15$					
4.	Discuss	the factors affecting cardiac output			[5]					
5.	Discuss									
6.	Spermat	ogenesis			[5]					
7.	Describe	about mechanism of respiration.			[5]					
		- I - I - I - I - I - I - I - I - I - I			[5]					
		Group - D (Very short a	M GWY A THE							
Ansv	$3 \times 2 = 6$									
8.		hree Questions) as of cerebellum								
	9. Write the function of stomach									
10.	[2]									
11.		troke volume and cardiac output			[2]					
11.	Gaseous	Exchange of the lungs,			[2]					