



Brainware University 398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme – DMLT-2023/DMLT-2024 Course Name – Human Anatomy and Physiology Course Code - DMLT101 (Semester I)

	Marks : 60	Time: 2:30 Hours				
[T]		orks. Candidates are required to give their answers in their rds as far as practicable.]				
		Group-A				
1.	(Multiple Choose the correct alternative from the	e Choice Type Question) 1 x 15=15 e following :				
(i) Select the basic structural and functional unit of all living organisms:						
(ii)	a) Tissuec) CellIdentify the following cell structures isATP:	b) Organ d) Organism responsible for producing energy in the form of				
(iii)	a) Golgic) NucleusThe type of cell that is observed to lace	b) Mitochondria d) ER k a nucleus and membrane-bound organelles:				
(iv)	a) Prokaryotic cell b) Eukaryotic cell c) Animal Cell d) Plant Cell ldentify the layer of the skin that contains sweat glands, hair follicles, and blood vessels:					
(v)	a) Epidermisc) HypodermisChoose the primary function of sebac	b) Dermisd) Subcutaneous Tissueseous glands in the skin:				
(vi)	 a) Regulation of body temperature c) Production of oil (sebum) Select one of the following that is NOT temperature: 	b) Production of sweatd) Protection against UV radiationa mechanism the body uses to regulate body				
(vii)	a) Shiveringc) Constriction of blood vesselsChoose the term for the process by w body temperature:	b) Sweating d) Increased heart rate hich the body increases heat production to raise				

b) Vasoconstrictiond) Hypothermia

a) Vasodilation

c) Thermogenesis

produced by the pineal gland:	ole for regulating sleep-wake cy	Cics and is			
a) Cortisol	b) Oxytocin				
a) Malatanin	d) Serotonin				
(ix) Identify the gland that is often referred system:	d to as the "master gland" of th	ne endocrine			
•	b) Adrenal gland				
a) Thyroid gland	d) Pituitary gland		•		
(v) Identify the sharehay of the beaut that	c) Pineal gland d) Pituitary gland (x) Identify the chamber of the heart that pumps oxygenated blood to the rest of				
	pumps oxygenated biods	•			
a) Right atrium	b) Right ventricle				
c) Left atrium	d) Left ventricle	-k absorber for the	.		
(xi) Select the layer of the skin that provid body:	es insulation and acts as a short	CK absolute ver and			
a) Epidermis	b) Dermis				
c) Hypodermis	d) None of these				
(xii) Choose the correct options regarding	a) Notice of these	rojections lining			
the small intestine -	the name of small image. Into Pr	5,554			
a) Villi	b) Microvilli				
c) Cilia	d) Alveoli				
(xiii) Write the name of the semi-liquid ma	ss of partially digested food in	the stomach.			
a) chyme	b) bolus				
c) Feces	d) Gastric juice				
(xiv) Predict the part of the digestive system		ater and			
electrolyte absorption.	in is primarily response.				
a) Esophagus	b) Large intestine				
c) Stomach	d) Pancreas				
(xv) Indicate the sheet of muscle that sepa		abdominal cavity			
and aids in breathing.	,				
a) diaphragm	b) Larynx	Library Brainware Unive	rsity on		
c) Bronchi	d) Pharynx	Bosh Only	d'Barazar		
		Brailly	1-1001.50		
	Group-B	Library Brainware Unive 398, Ramkrishnapur Ros Kolkala, West Bengi			
(Short	Answer Type Questions)	Kolkara	3 x 5=15		
2. Define the term blastocyst.			(3)		
3. Describe the terms Tubectomy & Vasecto	omy.		~ (3)		
4. Estimate the functions of lymph.			(3)		
5. Define Excertion.			(3)		
6. Explain the process of spermatogenesis		n.	(3)		
Illustrate the maintenance of calcium ho	OR maastasis in blood	Fig. ver. 19, eve	(2)		
mustrate the maintenance of calcium no	meostasis in blood.	A Company	(3)		
	Group-C	A A			
(Long)	Answer Type Questions)		5 x 6=30		
(Long,	answer type educations/		3 X 0-30		
7. Sketch the negative feedback regulation	n of adrenal glands		(5)		
8. Distinguish between external & internal respiration.					
9. Evaluate the phases of ovarian cycle.		STATE OF STREET	(5) (5)		
10. Sketch the flowchart showing negative	feedback regulation in thyroid	hormones	(5)		
11. Illustrate the process of fertilization.	January, old	-la	(5)		
12. Contrast between arterial, venous & ca	pillary system in the circulation	of blood.	(5)		

Illustrate the structure o	f excretory	organs along	with their	significance
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(5)

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