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BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Sc.(PA)-2022
Course Name – Human Physiology- Part II
Course Code - BPAC202
(Semester II)

Full Marks: 60 Time: 2:30 Hours

[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 1 x 15=15 (Multiple Choice Type Question) Choose the correct alternative from the following: (i) Match Chymotrypsin breaks b) cleave peptide bonds on carboxyl side of a) carboxyl sides of neutral amino acids aromatic amino acids d) peptide bonds on carboxyl side of amino c) carboxyl sides of basic amino acids acids (ii) Choose which muscle take part in rapid breathingb) Muscles of neck region and abdominal a) Muscles of rib cage c) Thoracic and abdominal muscles d) Muscles of neck region and thoracic region. (iii) Determine all of the following are hormones of the anterior pituitary except: a) Human growth hormone (GH) b) Follicle-stimulating hormone (FSH) c) Parathyroid hormone(PTH) d) Thyroid-stimulating hormone (TSH) (iv) The clusters of cells in the pancreas that produce hormones are interpreted as a) Nodules b) Islets of Langerhans d) Pancreatic cortex c) Pancreatic medulla (v) Name the cell by which Oxygen is carried by __ a) Platelets b) Leucocytes

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d) Monocytes

b) Secretion of ACE

d) Regulation of ventilation

c) Erythrocytes

a) CO2 and O2 exchangec) Pulmonary ventilation

(vi) Identify the non respiratory function of lungs

(vii)	Indicate Internal respiration occurs at the		
` '	a) nasal and oral cavity	b) alveolar membranes	
		d) cellular membranes	
(viii)	Predict chemoreceptors monitor the level of gase	s we inspire and can be round in an	
	these areas except the		
	a) carotid bodies	b) nose	
	c) aortic arch	d) brain	
(ix)	Indicate the function of trachea.	L. Coming sinto lungs	
	a) Releases air out of the body	b) Carries air to lungsd) Filters air we breathe	
1. 3.	c) Exchange of gas	rom can be interpreted as	
(x)	In the hemoglobin– O_2 dissociation, the right shift for	b) decreased 2,3-diphosphoglycerate (D	DC)
	a) increased pH	d) fetal hemoglobin (HbF)	r G)
۲۰:۱	c) carbon monoxide (CO) poisoning		
(XI)	Hypoxemia is associated with hyperventilation by	b) lung stretch receptors	
	a) phrenic nerve	d) carotid and aortic body chemorecepto	ors
(vii)	 c) medullary chemoreceptors Omit from the following is NOT the salivary protein 	•	
(^11)		b) Mucus	
	a) Lysozyme c) Phosphatase	d) Amylase	
(xiii)	Select the area pancreatic juice which aids digestic		
(******)	a) Liver	b) Duodenum	
	c) Jejunam	d) Ileum	
(xiv)	Indicate Synthesis of bile takes place in	•	
	a) Liver	b) Pancreas	
	c) Small intestine	d) Gall bladder	
(xv)	Select which of the following digestive juices has t	the minimum pH value?	
	a) Oral cavity	b) Oesophagus	
	c) Stomach	d) Ileum	
		_	
	Group		
	(Short Answer Ty	pe Questions)	3 x 5=15
2 111	water the components of lung surfactors		(-)
Illustrate the components of lung surfactant Mention the significance of Spirometer			(3) (3)
	4. Tabulate the composition of pancreatic juice		
	5. Explain the role of Calcitonin in regulation of Calcium homeostatsis		
	ompare the types of lung volumes		(3) (3)
	OR		\- 7
Co	onclude the significance of Vital capacity		(3)
Group-C			
	(Long Answer Typ	pe Questions)	5 x 6=30
7 (Compare the hormonal regulation of lactation and	the milk cicetion and	(5)
7. Compare the hormonal regulation of lactation and the milk ejection reflex8. Illustrate the mechanisms of oxygen transport in the blood, including the role of hemoglobin.			
9. Compare the histological structures and GI tract			
10. Diffrentiate between salivary juice had pancreatic juice			(5) (5)

11. Explain the process of parturition	(5)	
12. Illustrate the stages of menstrual cycle		
OR Compare the common causes of infertility in both males and females	(5) (5)	
