BP 201 T

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2022

B.Pharm. 2nd Semester End-Term Examination

HUMAN ANATOMY AND PHYSIOLOGY - II

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

1. Multiple choice question (answer all questions):

 $(20 \times 1 = 20)$

- (i) Asphyxia occurs due to
 - (a) Rise in level of CO2
 - (b) Fall in level of CO2
 - (c) Rise of O2 level
 - (d) Fall in O2 level
- (ii) The total number of alveoli.present in the human lungs is estimated to be around
 - (a) 1 billion

(b) 800 million

(c) 500 million

- (d) 1500 million
- (iii) Tachycardia i s defined as heart rate
 - (a) Above 100 b.p.m
 - (b) Above 80 b.p.m
 - (c) Below 60 b.p.m
 - (d) Above 120 b.p.m
- (iv) Complementary base pairing occurs between
 - (a) Adenine and Guanine
 - (b) Adenine and Cytosine
 - (c) Cytosine and Guanine
 - (d) Guanine and thymine

(v) Oog	genesis is			t - Januar Retning to 32 July
(a)	Formation of Spern	n		
(b)	Shedding of Endom	etrium		
(c)	Formation of Ova		31-	The state of the s
(d)	Release of LH and	FSH		
(vi) Mu	cosa associated Lymp	hoid tiss	ue (M	ALT) comprises of
(a)	Peyer's patches		4	
(b)	B & T -Lymphocyte	S		H.Pharm 2nd Seme
(c)	Spleen			BUMANATOR
(d)	Lymphatic duct			
(vii) Ep	iglottis is			
(a)	Hyalin Cartilage			
(b)	Tendon			and an estimate day.
(c)	Muscle			
(d)	Elastic fibrocartilag	re main		reasonal metrodo procedo elu iliniti
(viii) In	tercostal muscles con	sist of		Adphysia obstitudna to
(a)	11 pairs		(b)	9 pairs to forest at a ST 1(a)
(c)	10 pairs		(d)	22 pairs
(ix) Tota	al Lung capacity in a	n adult is		Toyel 20to sull., In
(a)	3 litre .		(b)	5 litre
(c)	4 litre	a la mi ter		6 litre
(x) Sign	noid colon is located i	n		all the bound
(a)	Abdominal cavity			
(b)	Pelvic cavity		1673	Printle Dr. B.
(c)	Dorsal body cavity		T. Dries	d an imministration of many order of more
(d)	Thoracic cavity			alogal 80 Canal D
(xi) Cho	lecystitis is inflamma	ation of		
(a)	Stomach		(b) -	Liver my Halwood and
(c)	Gall bladder		(d)	Small intestine
(xii)Whi	to be a second of the second o	onsible f	or re	gulation of calcium and phosphate
(a)	ADH	· v	(b)	Atrial netriuretic hormone
(c)	Aldosterone		(d)	PTH
				Maria de la companione

(xiii) U	Jreters are lined with		
(a)	Connective tissue		
(b)	Transitional epithelial tissue		
(c)	Stratified epithelial tissue	av.	
(d)	Adipose tissue of part work plants and the second state of the	N P	(#)
(xiv)Hu	uman sperm moves with the help of		
(a)			
(b)	Flagellum	(0)	
(c)	Basal body	(P)	
(d)	Nuclesome (were very transfer of the will of the order transfer of	b 65	N.o.
(xv) The	ne cells that conduct messages towards the brain are called	ia:	
(a)	Motor neuron Motor neuron and the second sec		(d)
(b)	Sensory neuron and the highest transmitted and send send		
(c)	Interneurons to white the que plant in stone is all		
(d)	All of these		
(xvi) Th	he myelin sheath around a neuron are actually produced by th	ie	
(a)	Neuron more more market and la gigalance		
(b)	Axon were the to not all not all mer but not reserve to seem or seems		
(c)	Dendrite Dendrite Dendrite	R.F.	
(d)	Schwann cell Consum Hobardy on stem Rude is edin		(1)
(xvii) Bi	Bidder's canal is meant for the passage of	IFD 3	no.I
(a)	Urine		
(b)	Sperms who die strong realize at small more reagy		
(c)	Ova provide manual to remain the second supplication and supplications		
(d)	Saline : Sal		
(xviii) T	The last part of a nephron is the		
(a)	Collecting Duct		
(b)	Renal papilla		
(c)	Distal convoluted tubule		
(d)	Glomerulus		

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(ALA)	Dattiva	HOTHS	444	digestion	OT.

- Starch (a)
- Proteins (b)
- Fats (c)
- Fiber (d)

(xx) Which area actually secretes renin into the blood?

- (a) Macula densa
- Juxtaglomerular apparatus (b)
- Juxtaglomerular cells (c)
- Cortical nephron (d)
- Write short note on following questions (any seven)

 $(7 \times 5 = 35)$

- Discuss the formation and role of ATP. (a)
- Write a note on Salivary Gland. (b)
- Define Genetics. Write a short note on chromosomes (c)
- Write a note on female reproductive cycle (menstrual cycle) and its (d) regulation.
- Define reflex action. Describe various components of reflex arc. (e)
- Physiology of Urine formation
- Discuss synthesis, secretion and regulation of acid secretion in stomach. (g)
- Explain neurotransmission in brief. (h)
- Write a short note on gland of Emergency (i)
- Long question (answer any two) (2 × 10 = 20

- Explain mechanism of respiration with special emphasis on transport of oxygen from lungs to other parts of body.
- (b) What are the different parts of human brain? Discuss anatomy and physiology of cerebrum.
- Outline various parts of digestive system. Discuss the anatomy and physiology of small intestine.