Full Marks: 80



BRAINWARE UNIVERSITY

Term End Examination 2019 - 20

Programme - Diploma in Pharmacy

Course Name - Human Anatomy & Physiology

Course Code -1.5T

(D. Pharm first year final)

Time allotted: 3 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

 $20 \times 1 = 20$ (Multiple Choice Type Question) Choose the correct alternative from the following 1. What is reabsorbed through loop of Henle? (i) b. CO2 a. Glucose d. water c. Potassium Which part of human brain is concerned with the regulation of body temperature? (ii) b. hypothalamus a. cerebellum d. Mandible c. Scapula Which of the following is flexible connective tissue that is attached to bones at the (iii) joints? b. Cartilage a. Adipose d. Muscle c. Epithelial

The term cell was coined by (iv)

a. Schwann

b. Robart Hooke

c. De Bary

d. Tatum

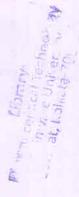
In a normal human being number of chromosomes is (v)

a. 23

b. 46

c. 53

d. 26



(vi)	Golgi apparatus is concerned with:		
	a. Detoxification mechanism	b. Secretions	
	c. Synthesis of hormones	d. None of the above	
(vii)	Rhythmicity is a property of:		
	a. Nervous tissue	b. Voluntary muscle	
	c. Cardiac muscle	d. Globular Cell	
(viii)	Ciliated epithelium is present in:		
	a. Alimentary canal	b. Bronchioles	
	c. Anal canal	d. None of the above	
(ix)	The term "Suicidal bags" is used for:		
	a. Lysosomes	b. Peroxisomes	
	c. Mitochondria	d. Ribosomes	
(x)	Name the outer most boundary of cell	l:	
	a. Plasma membrane	b. Cytoplasm	
	c. Nuclear membrane	d. None of the above	
(xi) A very important organelle which is also called power house of			
	a. mitochondria	b. Mucous membranes	
	c. Golgi complex	d. nucleus	
(xii)	Bile is produced by		
	a. Liver	b. Gall bladder	
	c. Pancreas	d. Kidney	
(xiii)	The reserve pack maker is:		
	a. AV node	b. SA node	
	c. Bundle of His	d. None of the above	
(xiv)	iv) Which of the following is the Glomerular Filtration Rate of a nephr		
	a. 125ml/day	b. 180ml/day	
	c. 125L/day	d. 125ml/min	
xv)	Addison's disease is related to:		
	a. Thyroid gland	b. Parathyroid gland	
	c. Adrenal gland	d. Thymus gland	
1879			

(xvi)	The adrenal gland is situated in		
(A11)	a. On upper pole of Kidne	y b. Neck	
	n tin brain	d. None of the above	
(xvii)	Which of the following is the r	master gland of the endocrine system?	
(XVII)	a. Adrenal	D. Panereus	
	- Dimitary	d. Thyroid	
	C. Trustery	spermatozoon occurs in which of the fol	llowing
(xviii)	Fertilization of an ovum by a structures?	Sperimano	
	a. Fallopian tube	b. Ovary	
		d. Uterus	2
	c. Vagina	anermatocyte is	
(xix)	Number of autosomes in hur	nan primary spermatocyte is b. 44	
	a. 46	d. 22	
	c. 23		
(xx)	Diabetes mellitus occurs du	e to the deficiency of:	
	a. Insulin	b. Inyloid	
	c. Glucagon	d. Parotid	
		C P	
$Group - B$ $8 \times 5 = 40$			
		(Short Answer Type Questions)	
	1 Call	lawing	
1 1110			5
	2. Differentiate between EEG and ECG.		5
) vy mat are		5	
4 Mention the composition of urine.		5	
5 Write down the functions of Gall bladder.		5	
	6. Write a note on ABO system of blood grouping.		5
Give the function of nervous system.		5	
Define vital capacity and expiratory reserve volume of lung.			1 40 J
	o Write a short note on I	Endoplasmic reticulum.	5
	9. Write a short note on I	megaloblastic and sickle cell anemia.	100
	10. Differentiate between	1000 M	4 0

5

 $2 \times 10 = 20$

11. Describe disorders of thyroid function.

Group - C

(Long Answer Type Questions) Answer any two from the following 12. Give an account of the composition and function of blood. 10 13. (a) What is nephron? 2 Explain the stages of urine formation. 8 14. Describe the mechanism of blood coagulation. 10

