

BRAINWARE UNIVERSITY

D. Pharm Part I Examination 2018 - 19

Programme-Diploma in Pharmacy

Course Name - Biochemistry and Clinical Pathology

Course Code - 1.4T

(D. Pharm First Year Final)

Time allotted: 3 Hours Full Marks: 80

[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

	(Multiple Choice	Type Question)	$20 \times 1 = 20$	
1.	Choose the correct alternative from the following			
(i)	The pigment in the rod cells of eye is called as			
	a. Rhodopsine	b. Melanine		
	c. Haemoglobin	d. Erythrocyte		
(ii)	The normal platelet count is	_		
	a. 2-5 lacs per cu.mm of blood	b. 2-8 lacs per cu.mm of	blood	
	c. 3-5 lacs per cu.mm of blood	d. 1-5 lacs per cu.mm of	blood	
(iii)	Which Hormone is responsible for regulation of water metabolism?			
	a. Vasopressin	b. Aldosterone		
	c. Renin	d. All of above		
(iv)	Vitamin B ₁₂ is component of			
	a. FAD	b. TPP		
	c. NAD	d. COA		
(v)	Aldosterone regulate			
	a. Sodium absorption	b. Blood glucose		
	c. Urine concentration	d. Potassium absorption	1	
(vi)	Lactose is made up of			
	 a. One glucose molecule and one galactose molecule 	b. Two glucose molecule	2	
	c. Two glucose molecules	d. One glucose and one	fructose molecule	

(vii)	Enzymes are				
	a. Protein in nature	b. Lipid in nature			
	c. Carbohydrate in nature	d. Acidic in nature			
(viii)	Heparin is a				
	a. Monosaccharide	b. Aldolase			
	c. Disaccharide	d. Hetero polysaccharide			
(ix)	Rickets occur due to deficiency of				
	a. Vitamin E	b. Vitamin A			
	c. Vitamin D	d. Vitamin K			
(x)	The normal WBC count is				
	a. 4000 to 11000 per cu.mm of blood	b. 9000 to 11000 per cu.mm of blood			
	c. 4000 to 15000 per cu.mm of blood	d. 6000 to 11000 per cu.mm of blood			
(xi)	Multiple forms of the same enzyme are called				
	a. Apoenzyme	b. Holoenzyme			
	c. Coenzyme	d. Isoenzyme			
(xii)	Which of the following is not excreted through urine?				
	a. Lactic acid	b. Sodium			
	c. Sulphur	d. Urea			
(xiii)	Milky white colour of urine is due to the presence of				
	a. Ketone bodies	b. Urea			
	c. Uric acid	d. Fat globules			
(xiv)	The coenzyme form of niacin is				
	a. NAD	b. TPN			
	c. FMN	d All of these			
(xv)	Which of the following is a sulphur containing amino acid				
	a. Glycine	b. Tryptophan			
	c. Methionine	d. Valine			
(xvi)	Which of the following is not a reducing sugar?				
	a. Lactose	b. Galactose			
	c. Maltose.	d. Sucrose.			
(xvii)	Severe form of anemia known as				
	a. Polycythemia	b. Iron deficiency anemia			
	c. Megaloblastic anemia	d. Pernicious anemia			

(xviii) Cholesterol is a						
	a. Carbohydrate	b. Steroid					
	c. Lipid	d. Fatty acid					
	1	, and the second					
(xix)	(xix) In anaerobic glycolysis number of ATP production from one mole of glucose is						
	a. 3	b. 2					
	c. 5	d. 7					
(xx)	Blood platelets are formed by						
	a. Spleen	b. W.B.C					
	c. Spleen and Bone marrow	d. Bone marrow					
Group – B							
(Short Answer Type Questions) $8 \times 5 = 40$							
Ans	wer any <i>eight</i> from the following						
2. Define nucleic acid. Write the function of and difference between DNA and RNA. 1+2+2							
3.							
4. What is the difference between essential, non-essential and semi essential amino 5 acids? Describe with examples.							
5.	•						
6.	·						
7.							
8.	8. What do you mean by D, L; d, l, alpha and beta variety of glucose? 1+1+2+1						
9.	Describe the general function of maj	jor and trace elements of human body.	5				
10	10 Human being cannot digest cellulose, but Herbivores can digest cellulose. Why? 5						
		Group – C					
(Long Answer Type Questions) $2x \ 10 = 20$							
Ansv	ver any <i>two</i> from the following						
11.	Write about Enzyme inhibition with application of Enzymes.	examples. Write down about the Diagnostic	6+4				
12.	12. Define Kreb's Cycle. Write the various steps of Tri carboxylic acid cycle & its regulations. Calculate the number of ATP formed from aerobic metabolism of carbohydrate.						
13.	Define lymphocytes. Describe the ab	normalities of Lymphocytes.	2+8				