REV-01 DPH/04/07

## D.PHARM. SECOND YEAR BIOCHEMISTRY & CLINICAL PATHOLOGY ER20-23T [SPECIAL REPEAT] [USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

a. Lipid c. Vitamin

10. The nature of an enzyme is

Full Marks: 80

1×20=20

## (PART-A: Objective)

Che	oose the correct answer from the follow	ing	g:
1.	The total body water content is regulated by a. Dehydration c. Rehydration	b.	e brain is? Euhydration All of the above.
2.	ALT stands for a. Alkaline transaminase c. Alanine transaminase	b.	Alkaline phosphate None of the above
3.	Which of these is not a lipid  a. Fat c. Oil		Protein Waxes
4.	β-oxidation of fatty acid occurs in  a. Liver  c. Peroxisome		Mitochondria Muscle
5.	Which of the following is an essential amino a. Asparagine c. Glutamate	b.	id' Cysteine Phenylalanine
6.	Which one of the following is a good choles a. HDL c. LDL	b.	ol VLDL All of these
7.	Which of the following is the general formu a. $(C_4H_2O)_n$ c. $(C_6H_2O)_n$	b.	f carbohydrate (CH <sub>2</sub> O) <sub>n</sub> (C <sub>2</sub> H <sub>2</sub> O) <sub>n</sub>
8.	pH of urine is a. 1.2-3.4 c. 7.7-10		4.8-7.5 7.5-8
9.	Erythrocyte synonym is a. RBC c. WBC		Platelates All of these

b. Carbohydrated. Protein

11.	1. Which of the following is simplest form of carbohydrates					
	a. Carboxyl group		Alcohol and ketone group			
	c. Aldehyde and ketone group	d.	Hydroxyl and hydrogen group			
12.	The functional active form of Vitamin D is					
	a. Cholecalciferol	b.	Dehydrocholesterol			
	c. Ergocalciferol		Calcitriol			
13.	The is the main site for transamination					
	a. Liver		Skin			
	c. Heart	d.	None of the above			
14.	Composition of Normal Saline is					
	a. 0.9% of KCl	b.	9.0% of NaCl			
	c. 9.0% of KCl		0.9% of NaCl			
15.	Koshland proposed which model:					
	a. Fluid mosaic model	b	Induced fit model			
	c. Reflective index model		Lock and key model			
16.	6. The base pair G-C is more stable and stronger than A-T due to					
	a. 2 Hydrogen bond	ert	tRNA			
	c. mRNA		3 Hydrogen bond			
17	Enzymes are made Up of:	и.	5 Hydrogen bond			
	a. Nucleic acids	1.				
	c. Vitamins		Amino acid			
19			ats			
10.	Which of the following is a fat-soluble vitam a. Vitamin B					
	c. Vitamin B <sub>12</sub>		Vitamin C			
10		d.	Vitamin K			
19.	The sugar molecule present in nucleotide is					
	a. triose		pentose			
	c. tetrose		hexose			
20.	Which of the following vitamins is also know	wn a	as cobalamin?			
	a. Vitamin B12		vitamin B2			
	c. Vitamin B11	d.	Vitamin B6			

## ( PART-B: Short Answers )

[ Answer any ten (10) from the following ]							
1	Describe the qualitative test for Unit 12	[3x10=30]					
1.	Describe the qualitative test for lipid?	3					
2.	Define lipid peroxidation, rancidity, and cholesterol.	1+1+1					
3.	What is dehydration? Write down the WHO formula of ORS?						
4.	Explain the Watson and Crick model of DNA?						
5.	Mention the structure of nitrogenous bases present in DNA.						
6.	What is erythrocyte? Write its role in human health and disease?						
7.	What is water turnover and electrolyte balance?						
8.	Write down the biological process of $\beta$ -oxidation of fatty acid.	3					
9.	What is lymphocyte? Write its role in human health and hygine.	1+2					
10.	Define transamination and deamination?	1.5+1.5					
11.	Describe the causes of dehydration?	3					
	( PART-C: Long Answers )						
	[ Answer any six (6) from the following ]						
1.	Explain kreb cycle?	[5x6=30] 5					
2.	Describe the types of liver function test?	5					
3.	Describe the types of kidney function?	5					
4.	Write down the application of biotechnology in pharmaceutical	5					
	sciences?						
5.	Describe the induced fit theory of enzyme?	5					
6.	Write down the glycolysis pathway?	5					
7.	Write a note on structure of protein?	5					
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[3]