REV-01 DPH/60/65 2023/05

 $1 \times 20 = 20$

D.PHARM. SECOND YEAR BIOCHEMISTRY & CLINICAL PATHOLOGY ER20-23T

Duration: 3 hrs. Full Marks: 80

(PART-A: Objective)

Choose the correct answer from the following:						
1.	The total body water content is regulated by a. Dehydration c. Rehydration	b.	e brain is? Euhydrațion All of the above.			
2.	ALT stands for a. Alkaline transaminase c. Alanine transaminase		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 formula. $(C_4H_2O)_n$ c. $(C_6H_2O)_n$	b.	of carbohydrate (CH2O)n (C2H2O)n			
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			
10.	The nature of an enzyme is a. Lipid c. Vitamin		Carbohydrate Protein			

		and the same of th
11.		rbohydrates b. Alcohol and ketone group d. Hydroxyl and hydrogen group
12.		b. Dehydrocholesterol d. Calcitriol
13.		ion b. Skin d. None of the above
14.		b. 9.0% of NaCl d. 0.9% of NaCl
15.		b. Induced fit modeld. Lock and key model
16.	, 0	r than A-T due to b. tRNA d. 3 Hydrogen bond
17.		b. Amino acid d. Fats
18.		n? b. Vitamin C d. Vitamin K
19.		b. pentose d. hexose
20.		n as cobalamin? b. vitamin B2 d. Vitamin B6
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[2]

(PART-B: Short Answers)

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