Seat No: _____

Enrollment No:

PARUL UNIVERSITY FACULTY OF PHARMACY

D. Pharm., May-2018 Examination

Yea	r: 1	Date: 21/05/2018 Time: 10:00am to 1:00pm	
Sub	ject Code: 08600104		
Sub	ject Name: Biochemistry and clinical pathology	Total Marks: 80	
Inst	tructions:		
	igures to the right indicate maximum marks.		
2. N	Make suitable assumptions wherever necessary.		
Q.1	Multiple Choice Questions (MCQs) (1 Mark Each	(2	20)
1.	Iron in mucosal cell binds with the protein:		
	A) Transferrin	C) Ceruloplasmin	
	B) Ferritin	D) Hemosiderin	
2.	The number of double bond present in arachidonic ac	id:	
	A) 1	C) 3	
	B) 2	D) 4	
3.	SGPT is chemically:		
	A) Serum glutamate phosphate transaminase	C) Serum guanine pyruvate transaminase	
	B) Serum glutamate pyruvate transaminase	D) Serum guanine phosphate transaminase	
4.	Good lipoprotein name is:		
	A) LDL	C) VLDL	
	B) HDL	D) IDL	
5.	The Synthesis of Urea occur in:		
	A) Kidney	C) Liver	
	B) Muscle	D) Brain	

	2)	1/145010	D) Druin	
6.	• Which element prevent the development of dental caries :			
	A)	Fluorine	C) Phosphorus	

B) Calcium D) Sodium

7. Which test difference monosaccharide and disaccharide?

A) Seliwanoff 's testB) Iodine's testC) Barfoed 's testD) Benedict 's test

8. The major source of plant carbohydrate is:

A) Starch C) Glycogen
B) Heparine D) Saccharin

9. Vitamin used in the treatment of homocystinuria is :

 $\begin{array}{ccc} A) & B_{12} & & C) \ B_2 \\ B) & B_1 & & D) \ B_4 \end{array}$

10. A Holoenzyme is:

A) Functional unitB) CoenzymeC) ApoenzymeD) All of these

11. Oxidation of one molecule of glucose yields:

A) 24 ATP C) 08 ATP B) 12 ATP D) 38 ATP

12. Rothera test is positive for :

A) AcetoneB) GlucoseC) AlbuminD) Cholesterol

13. A purine nucleotide is :

A) AMP C) CMP B) UMP D) TMP

14.	An example of enzyme inhibition:				
	A) Reversible inhibition	C) Allosteric inhibition			
	B) Irreversible inhibition	D) All of these			
15.	A component of the respiratory chain in mitoch	nondria is :			
	A) Coenzyme Q	C) Acetyl coenzyme			
	B) Coenzyme A	D) Coenzyme containing flourine			
16.	The following is sulphur containing aminoacid	:			
	A) Metheonine	C) Cystine			
	B) Cysteine	D) All of above			
17.	The major source of plant carbohydrate is:				
	A) Starch	C) Glycogen			
	B) Heparin	D) Saccharin			
18.	Which of the following nucleotide bases is not	found in RNA:			
	A) Thymine	C) Cytosine			
	B) Adenine	D) Uracil			
19.	The protein present in hair is:				
	A) Keratin	C) Elastin			
	B) Myosin	D) Collagen			
20.	The bond in protein structure that are not brok				
	A) Hydrogen bond	C) Ionic bond			
	B) Peptide bond	D) Disulfide bond			
Q.2					
1.	Define and classify the carbohydrate and write about qualitative tests of carbohydrate.				
2.	Define enzymes. Classify them and write factors affecting the enzyme action.				
3.	Write a short note on Rancidity and Iodine Number.				
4.	What are lipids? How they classified. Give biological importance of phospholipids.				
5.	Explain HMP Shunt (Hexose monophosphate s				
6.	Describe functions and metabolism of phospho	-			
7.	Write about inborn error of aminoacid metabol				
8.	Write brief on chemistry and role of vitamin K				
9.	Describe the metabolism of phenylalanine and	•			
10.	Write about the various types, characteristics a		(20)		
Q.3	Short Answers (2 Mark Each)(Answer any		(20)		
1.	Write about importance of bio-chemistry and clinical pathology.				
2.	Define cell. Differentiate eukaryotic and proka	ryouc cen.			
3.	What are the biological function of protein?				
4. 5	Define Saponification value and Acid value.				
5.	Write about importance of serum enzyme in diagnosis of disease.				
6. 7.	Write about the biological functions of protein.				
	Explain Kwashiorkor and Marasmus.				
8. 9.	Differtiate diabetes mellitus and diabetes insipidus.				
9. 10.	Describe the physical and chemical properties of lipids. Write about role of Co-enzyme.				
10. 11.	Write down the various functions of Cholestero	al			
11. 12.	Write about the deficiency symptoms of Iron a				
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