Seat No:	Enrollment No:

## PARUL UNIVERSITY FACULTY OF PHARMACY Pharm.. October 2019 Examination

	D. Pharm., October 20	19 Examination	_
Sub	nester: 1 oject Code: 08600104		Date: 23/10/2019 Time:10.00 am to 1.00
	ject Name: Biochemistry and clinical pathology		Total Marks: 80
	tructions:		
	igures to the right indicate maximum marks.  Make suitable assumptions wherever necessary.		
2. IV	take suitable assumptions wherever necessary.		
Q.1	Multiple Choice Questions (MCQs) (1 Mark Each)		
1.	Which of the following is also known as invert sugar?		
	a) Sucrose	b) Fructose	
	c) Dextrose	d) Glucose	
2.	Carbohydrates are also known as		
	a) Hydrates of carbon	b) Carbonates	
	c) Glycolipids	d) Polysaccharides	
3.	Amino acid are joined by		
	a) Peptide bond	b) Ionic bond	
	c) Hydrogen bond	d) Glycosidic bond	
4.	What is an apoenzyme?		
	a) It is a protein portion of an enzyme	b) It is a non-protein	group
	c) It is a complete, biologically active conjugated	d) It is a prosthetic gr	roup
	enzyme		
5.	Which of the following is not a fat-soluble vitamin?		
	a) Vitamin D	b) Vitamin K	
	c) Vitamin C	d) Vitamin A	
6.	Which of the following vitamin serves as a hormone p	recursor?	
	a) Vitamin C	b) Vitamin A	
	c) Vitamin K	d) Vitamin D	
7.	The abnormal constituent of urine is		
	a) Albumin	b) Urea	
	c) Creatinine	d) Sodium	
8.	Which of the following is a sulphur containing amino	*	
	a) Glycine	b) Methionine	
	c) Threonine	d) Tyrosine	
9.	Fructose and Glucose can be distinguished by	•	
	a) Selwinoff's reagent	b) Benedict's reagen	t
	c) Fehling's reagent	d) Barfoed's reagent	
10.	Vitamin K deficiency results in the disorder		
	a) Dermatitis	b) Related growth	
	c) Color blindness	d) Defective blood cl	otting
11.	Which of the following element is required for constrict		-
	a) Na <sup>+</sup>	b) Ca <sup>++</sup> and K <sup>+</sup>	
	c) Ca <sup>++</sup>	d) Na+ and Mg <sup>++</sup>	

12. Vitamin B<sub>2</sub> is a component of

b) FAD a) NAD<sup>+</sup> d) CoA c) TPP

13. Normal urine

b) Highly acidic a) Neutral c) Slightly alkaline d) Slightly acidic (20)

14.	whiky white color of urine is due to the presence of		
	a) Fat globules	b) Hemoglobin	
	c) Nephritis	d) Albumins	
15.	$\beta$ - oxidation is a the breakdown of		
	a) Polysaccharides	b) Polypeptides	
	c) Long chain fatty acids	d) Amino acids and sugar	
16.	Goiter is a caused by the deficiency of		
	a) Fluorine	b) Iodine	
	c) Chloride	d) Sulphide	
17.	Unsaturated fatty acid contain		
	a) One or more double bonds	b) Nonpolar hydrocarbon chain	
	c) Single bond	d) All above	
18.	Secondary structure of protein is stabilized by		
	a) Disulphide bonds	b) Electrostatic forces	
	c) Hydrophobic bonds	d) Hydrogen bond	
19.	Biuret test perform for		
	a) Protein	b) Sugar	
	c) Lipid	d) All above	
20.	Blood platelets are formed in the		
	a) Spleen and bone marrow	b) Heart	
	c) Liver	d) Kidney	
<b>Q.2</b>	Long Answers (any 8 out of 10) (05 Mark Each)		<b>(40)</b>
1.	Define Carbohydrates. Classify them with suitable example and the suitable example.	mples and Write note on chemical properties of	
	carbohydrate.		
2.	Explain primary and secondary structure of proteins.		
3.	Define lipids. What is the role of lipid in living organis	ms?	
4.	Write note on biological role of vitamin A and vitamin	C.	
5.	Write note on glycolysis.		
6.	Write detail account of cholesterol biosynthesis.		
	Discus urea cycle.		
8.	Write note on disorders of protein metabolism.		
	What are the lymphocytes?		
	Describe the general functions of major and trace eleme	ents in human body.	
<b>Q.3</b>	Short Answers (2 Mark Each) { Answer any 10}		<b>(20)</b>
1.	Write note on clinical importance of Inulin and Dextrar	1.	
2.	Discus competitive and non-competitive inhibitions.		
3.	Define terms: saponification and iodine value		
4.	What is metabolic water?		
5.	Write note on biological role of calcium		
	Give significance of SGOT and SGPT.		
_	Write note on energetics of TCA cycle.		
8.	Write short note on ketogenesis.		
9.	What is transamination?		
	Name the abnormal condition of urine.		
11	What is difference between nucleotide and nucleoside?		
12	Discuss cori cycle.		