FIRST YEAR (NEW) PHARMACY BIOCHEMISTRY AND CLINICAL PATHOLOGY (104)

Time: Three Hours

Maximum Marks: 80

- Note: i) Attempt total six questions. Question No.1 is compulsory. From the remaining questions attempt any five.
 - ii) Answer each next main question with a new page.
 - iii) Illustrate your answer with neat sketches wherever necessary.
- 1. Define the following with examples (Any five)

2 each

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- ·a) Lipids
- b) Amino acids
 - .c) Iso-Enzymes
 - 'd' Hyperglycemia
 - ·e) Glycogenolysis --
- f) Diabetes
- . 2. Solve any four from the following

14

- a) Classify Carbohydrates with suitable examples.
- b) Give the structure of
 - i) Glucose

ii) Fructose

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Give two identification test for carbohydrates

-d) e)		
,		1.4
	olve any four from the following	14
- a)	_	_
) Describe any two tests of amino acids	
, c)) Give structure of any two Non- essent	ial amino
·	acids http://www.rgpvonline.com	
d	 Explain primary and secondary stru 	ctures of
	protein	
е	e) Describe Urea Cycle	
4. 5	Solve any four from the following	14
γ • a		
-b		ı
	Define the terms under lipids	•
	i) Acid Value	
	ii) Saponification Value	
. (d) Describe essential fatty acids	
- (e) Explain β-oxidation of fatty acids	
- 5.	Solve any four from the following	14
~~	a) Efassify the vitamins with examples	
4.4	b) Give structure, biochemical role and d	leficiency
	diseases of ascorbic acid	···.
	Differentiate between enzyme and co-	
ţ	d) Explain the role of Vitamin-D in Hum	an body
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Explain the diseases caused due to def	iciency of
following vitamins	
Vitamin-A —	
'ii) Vitamin-B1 -	
Solve any four from the following	14

- - Give the dietary source of following
 - Iodine i)
 - ii) Calcium
 - Give the deficiency diseases of followings /b)
 - i) Zinc __
 - ii) Copper-

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- Give the physiological functions of iron
- d) Describe the regulation of water
- Write a note on phosphorus
- 14. 7. Solve any four from the following
 - Discuss clinical significance of enzyme a)
 - b) Classify enzymes with examples
 - Discuss the mechanism of enzyme action
 - Explain the various factors affecting enzyme action
 - e) Explain the terms
 - **SGOT** i)
 - ii) SGPT

8. Solve any four from the following

14

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- a) Explain the terms
 - i) Megaloblastic Anaemia
 - Leukaemia
- Write the chemical examination of bile pigments in urine.
 - Name the abnormal constituents of Urine
 - d) Explain the characteristics of Normal Urine
 - e) Write the following tests
 - i) Barfoed's Test
 - ii) Xanthoproteic Test

