

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL WWW FirstRanker.com

LONERE	RAIGAD	- 402 103
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	Winter Semester E	xamination - December - 201	18
Cours	e: B. Pharm.		Semester: I
-	ct with Subject Code: Biochemistry		
	a 01/01/2019 Mark		Duration: 3hrs
Instructions: 0 All questions are compulsory			
<i>ID</i> Figures to the right indicate full marks iii) Draw the diagrams or flow charts wherever necessary.			
Q.No	. 1 Multiple Choice Questions:	<u> </u>	(20 x 1= 20)
a)	The power house of the cell is call	led as	
	a) Nucleus	b) Cell membrane	
	c) Mitochondria	d) Lysosomes	
b)	b) The general formula of monosaccharides is		
	a) CnH2nOri	b) C2n.H2On	
	c) CnH2O2n	d) CnH2n02n	/•.
c)	Which of the following is a non-re	educing sugar?	
	a) Glucose	b) Maltose	
	c) Lactose	d) Sucrose	
(1) The sugar found in RNA is		
	a) Ribose	b) Deoxyribose	
	c) Pentose	d) Erythrose	
e)	A positive Benedict's test is NOT	enedict's test is <i>NOT</i> given by	
	a] Sucrose	b) Lactose	
	c] Maltose	d) Glucose	
f)	Glucose-6-phosphatase is deficien	nt in	
	a) Von Gierke's disease	b) Pompe's disease	
	c) Cori's disease	d) McArdle's diseas	se
g)	Under anaerobic conditions the glycolysis of one mole of glucose yieldsmoles		ose yieldsmoles of
	ATP.		
	a) One	b) Two	
	c) Eight	d) Thirty	
11) Glycogen is converted to glucose	-l-phosphate by	
	a) UDPG transferase	b) Branching enzyr	ne
	c) Phosphorylase	d) Phosphatase	

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i) Which of the following is not an enzyme involved in glycolysis?

	a) Enolase	b) Aldolose	
	c) Hexokinase	d) Glucose oxidase	
j)	Sulphur containing amino acid is		
	a) Methionine	b) Leucine	
	c) Valine	d) Asparagine	
k)	Phospolipids contains group.		
	a) Amino	b) Hydroxyl	
	c) Acetyl	d) Phosphate	
1)	is <i>NOT</i> the factor affecting the	enzyme activity.	
	a) Concentration	b) pH	
	c) Temperature	d) Molarity	
m)	The main site for oxidative deamination as	re	
	a) Liver & Kidney	b) Skin & Pancreas	
	c) Intenstine & stomach	d) Lung & Skin	
n)	The carbohydrate reserved in human body	/ is	
	a) Starch	b) Glucose	
	c) Glycogen	d) Insulin	
0)	RNA is converted to protein by	<u> </u>	
	a) Transcription	11) Translation	
	c) Lipase	d) Kinase	
p)	Which nitrogenous base is not found in str	ructure of RNA?	
	a) Thymine	b) Uracil	
	c) Guanine	d) Cytocine	
q)	Which. of the following is an essential amino acid?		
	a) Valine	b) Glycine	
	c) Alanine	d) flistidine	
r)	The cellular organelles called "suicide bag	s" are	
	a) Lysosomes	b) Ribosomes	
	c) Golgi's bodies	d) Nucleolus	
s)	Degree of unsaturation of fats and oils is a	denoted by	
	a) Iodine Number	b) Acid Number	
	c) Phenol Coefficient	d) Acetyl Number	

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 $(2 \times 10 = 20)$

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 - a) Valine
 - c) Phenylalanine

Q.No. 2 Attempt any SEVEN of the following: (7 x5 = 35)

b) Tyrosine

d) Arginine

- a) Explain Urea cycle in detail.
- b) Describe factors affecting enzyme activity,
- c) Write chemistry and biological significance of cholesterol.
- (1) What is oxidative phosphorylation? Explain any one mechanism of oxidative phosphorylation in detail.
- e) Define Lipids. Give its classification and add a note on Complex lipids,
- f) Write a note high energy compounds.
- g) Define Amino acid. Give its classification and write a note oxidative deamination.
- h) Write a note on DNA replication.
- i) What is diabetes mellitus? Explain types and treatment for diabetes mellitus.

Q.No. 3 Attempt any TWO of the following:

- a) How oxidation of lipids takes place? Write in detail about 13 oxidation with example and energetic.
- b) What is glycolysis? Explain reaction involved in glycolysis with generation of ATP.
- c) What is carbohydrate? Give its classification, chemical nature and biological role in detail.

*** End ***

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