DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Summer 2022

Cours	se: B. Pharmacy	Sem: II			
Subje	ct Name: Biochem	istry	O KIRD	Subject Code: BP203T /2022 Duration: 3.45 Hr.	
Max I	Marks: 75	Date:	05/09/2022		
1. 2. 3.	Draw diagrams /	compulsory s should be written in fo figures wherever necess ndicate full marks			
0.1	Maria Chaire		20/11/1		
	_	SON SON SON	かンシンのひか	questions are compulsory)	
i.	•	mes that catalyze the tran	ister of function	onal groups.	
	a) Transferases	b) Hydrolases			
	c) Oxidoreductase				
ii.	The two monosaccharides differ from each other in their configuration around a single				
	specific carbon atom, they are referred to as of each other.				
	a) Tautomer	b) Epimer		y .	
	c) Enantiomer	d) Anomer			
iii.	Polysaccharides as	re			
	a) Oils	b) Proteins			
	c) Fats	d) Polymers			
iv.	Which one of the following amino acids contains imino group?				
	a) Tryptophan	b) Tyrosine			
	c) Proline	d) Leucine			
	The cyclopentanoperhydrophenanthrene ring is present in				
	a) Cholesterol	b) Cetyl alcohol			
	c) Melatonin	d) All of the above			
vi.	A positive Benedict's test is NOT given by?				
	a) Lactose	b) Sucrose			

	c) Maltose	d) Glucose				
vii.	The conversion of alanine to glucose is termed as					
	a) Glycolysis	b) Transformation				
	c) Glycogenesis	d) Gluconeogenesis				
viii.	Pentose phosphate pathway generating two important products					
	a) Pentose sugar and NADPH		b) Pentose sugar and NADH			
	c) Pentose sugars ar	nd erythrose sugars	d) Pentose sugars and sedohept	ulose		
ix.	The enzyme	deficiency is asso	ociated with resistance to malaria.			
	a) Glucose-6-Phosp	hate dehydrogenase	b) Glucose-6-Phosphate hydro	ogenase		
	c) Glucose-5-Phosp	hate dehydrogenase	d) Glucose-5-Phosphate hydro	genase		
х.	Obesity is accumulation of in the body.					
	a) Water	b) NaCl		ř		
	c) Fat	d) Protein				
xi.	Waxes contain higher alcohols named as					
	a) Methyl	b) Ethyl				
	c) Heptyl	d) Cetyl				
xii.	The Enzyme is responsible for black urine disease.					
	a) Homogentisate oxidase b) Phenyl alanine hydroxylase					
	c)Tyrosine transaminase d) Carboxylase					
xiii.	The transfer of an amino (NH ₂) group from an amino acid to a keto acid is known					
	as					
200	(a) Transformation	b) Transition				
	c) Transamination	d) Deamination				
xiv.	In RNA, the complementary base of adenine is					
	a) Cytosine	b) Uracil				
	c) Guanine	d) Thymine				
XV.	All are the codons stop the signal in protein synthesis except					
	a) UAA	b) UAG				
	c) UAC	d) UGA				
xvi.	The enzyme primase	y e in association with sing	gle-stranded binding proteins forms	a complex		
200	and produces	The state of the s	,	P10A		

	a) RNA primer	b) RNA polymer		
	c) DNA primer	d) DNA polymer		
xvii.	Enzymes lose the catalytic activity at temperature above 70 °C due to			
	a) Deregulation	b) Disturbance		
	c) Distortion	d) Denaturation		
xviii.	The reaction given by two or more peptide linkages is			
	a) Biuret test	b) Ninhydrin test		
	c) Xanthoproteic test	d) Pauley's test		
xix.	The enzyme	is used in the treatment of leukemias.		
	a) Asparaginase	b) Streptokinase		
	c) Fructokinase	d) Hydrogenase		
XX.	The functional unit of enzyme is known as			
	a) Apoenzyme	b) Coenzyme		
	c) Holoenzyme	d) Monomeric enzyme		
Q. 2.	Long Answers = 2×1	0 = 20 (Answer 2 out of 3)		
i.	Explain in detail β -oxidation of palmitic acid along with the energetics.			
ii.	Define enzyme inhibitors and discuss the different types of enzyme inhibitors.			
iii.	Describe the TCA cycle and explain the reaction involved in it with energetics.			
Q. 3.	Short Answers = 7×5	= 35 (Answer 7 out of 9)		
i. Draw the following Structures				
::-96		ohan c) Tyrosine d) Adenine e) Dihydroxy acetone ation of proteins based on their chemical nature with suitable		
ii.	example.	ation of proteins based on their chemical nature with suitable		
iii.	Define the glycolysis and explain the pathway for glycolysis.			
iv.	Give brief account on biological significance and biosynthesis of adrenaline and nor-adrenaline.			
v.	Explain in detail path	way of ornithine cycle.		

ix. Define and Classify enzyme as per IUB system with example.

Write a note on formation and utilization ketone bodies

vi.

vii.

viii.

Differentiate between DNA & RNA. Enlist the enzyme involve in DNA replication.

Define transcription and translation and discuss the inhibitors of protein synthesis.