

Virtual University of Pakistan

Bio202

Biochemistry I

Final term Past Papers

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Bio 202

Galactosylceramide, amide group of asparagine, Rate limiting Step in Folding process, essential Amino Acid, Sterols , cGMA , Leukotrienes, Lipoxins. aur baki kuch Q uploaded ppr me se the. bio202....co enzymes, purine and pyrimidine, cAMP properties, properties of nitrogenous bases, composition of nucleotides and function, how proline destabilize nucleotide, condensation reaction, function of proline etc.

primary structure of DNA .formation of D fructose and D rhamnose.exp the no of carbon and nitrogen atom in nitrogenous base. Describe the function of deoxy D ribose from D ribose.Exp the nucleotide ad intermediate and the co enzyme . and two signaling mole of nucleotideenjoy learning findz

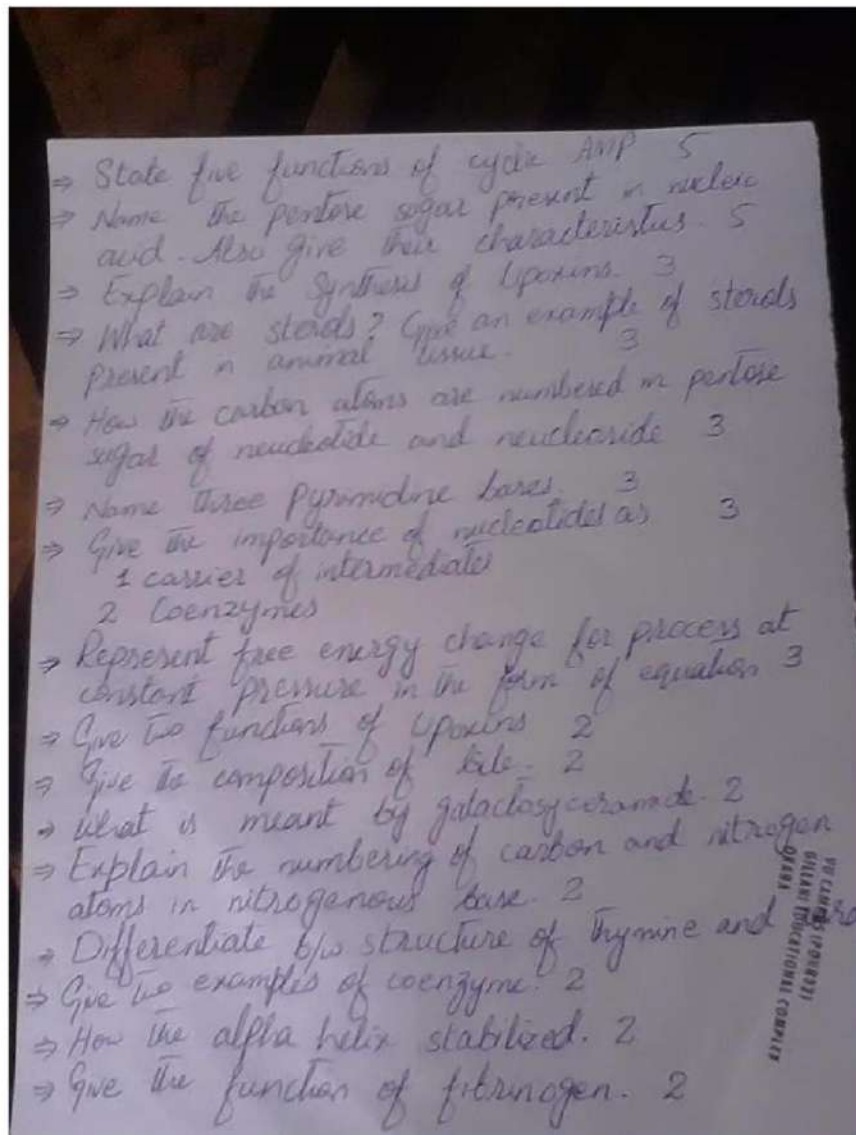
Formation of D fructose and D rhamnose

Native protein

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Secondary n tertiary structure
Functions and synthesis of
Lipoxine
N glycosidic bond
Digestive protein
interaction of DNA Purines
n pyramidine
glutathione
Glycerols



Synthesis of lipoproteins 2 marks 2.

Differentiate between adenine and guanine. 2 marks 3.

Write three bases of pyrimidine. 3 marks Write the types of lipoproteins. 3 marks.

Write the primary structure of DNA. 5 marks.

Nucleotide as a regulatory compound, justify it. 5 marks

What are enzymes and its classification. 10 marks 7. What are waxes write properties and classifications. 10 marks 3 functions of cAMP. 3 marks how banaspati ghee is produced from oil. 2 marks

hydrogenation of fats. 3 marks interactions

in DNA. 5 marks

saponification and its end products. 3 marks waxes
its types and properties. 10 marks enzymes and
its classification. 10 marks

2 examples of unnatural pyrimidine bases. 2 marks.

No of carbon atoms and nitrogens in nucleotide 2 marks

Name the pentose sugars present in nucleotide also write down characters 5 marks

Write three functional groups of purin pyrimidin ring 3 marks

Nucleotide is the energy currency of cell justify 5 marks

What are enzymes n its classification 10 marks

What are waxes write properties and classifications 10 marks

Mcqs mostly proteins r enzymes k topics me se te r mushkl te kafi gud luck to all

what is the frequency of trait in x-linked dominant trait. write atleast 3 types of genetic disorders.
what is point mutation, write three types of mutations in chromosome structure. how mutation
alter gene function? what are chromosomal aberrations? how do we classify them? (today's paper
of mine 301.. 11 am)

2 long 10 marks

what is wax ? describe in detail

what is enzyme ? also describe its functional groups

5 marks

what is primary DNA

3 marks

what is rancidity ? and what is hydroxyl and oxidize rancidity

What are enzymes ? Classification? 10 marks Wax ?? It's type
and properties ?

Name 2 unnatural pyrimidines ?

Nucleotide regulation ?

How can make bhaspati ghee from oil ? Properties
of nucleotide ?

Give example of condensation??? 2 marks what

is the function of bile salt? 2 marks

write the name of functional group of purine and pyrimidines?? 3 marks write
the three characters of glycerol?? 3 marks

:what is the rancidity? which factors effect it?? 2+3

five function of cAMP? 5 marks
waxes and its types? 10 marks
enzyme and its classification? 10 marks
MCQz
1 torr = --- mmHg
DNA absorb light of ----- nm.

Bio202

Waxes and its type and its characteristic enzymes and its classification name the pentose sugars in nucleic acid and its characteristic.

Role of nucleotide energy currency in cell
Simple lipid and types three functions of
pyrimidines and purines. differentiate
between adenine and guanine

Iodine number and its importance. Rancidity and factors affecting it. Waxes. Enzymes. Properties of nucleotides. How to number carbons in pentose nucleotide and nucleoside

functions of cAMP. 3 marks
how banaspati ghee is produced from oil. 2 marks
hydrogenation of fats. 3 marks.

interactions in DNA. 5 marks
saponification and its end products. 3 marks
waxes its types and properties. 10 marks
enzymes and its classification. 10 marks

2 examples of unnatural pyrimidine bases. 2 marks.

functions of cAMP. 3 marks.

how banaspati ghee is produced from oil. 2 marks.

hydrogenation of fats. 3 marks. interactions in DNA. 5 marks.

saponification and its end products. 3 marks. waxes its types and properties. 10 marks

enzymes and its classification. 10 marks

2 examples of unnatural pyrimidine bases. 2 marks.

waxes 10 enzymes
10 pentose sugar 5

nucleotide as energy currency of cell 5 banaspati ghee 3
types of waxes 3 number of carbon atoms in nucleotide
and nucleoside 3

#Short question:

Name two structural homopolysaccharides? (2)

Name the factors that contract entropy? (2)

Give the composition of TAGs? (2)

Give the composition of bile? (2)

What do you know about enzyme kinetics? (2)

What is the function of tRNA? (2)

What is meant by proteins folding? (3)

Give three function of cGMP? (3)

How the carbon atoms are combined in Pentose sugar of nucleotides and nucleosides? (3)

What is meant by saponification number and give the end product of saponification? (3)

What do you know about Michaelis-Menten kinetic equation? Explain? (3) #Long
question:

Name the Pentose sugar present in melic acid and give its characteristics? (5)

Explain the process of hydrogenation with respect to fats? (5) Write
the enzyme classification in detail? (5)

What is Duchenne muscular dystrophy?

Name the two unnatural pyrimidine bases

Give uses of cholesterol Give the

function of tRNA what is

enzyme kinetics Give the

function of cyclic AMP

: Give the five function of cGMP

. What is iodine number

Give the classification of enzyme in detail

What is hydrogenation in fats?

Write briefly the classification of enzymes and explain? 5 marks

What is k_m in Michaelis-Menten equation of kinetics? Explain 5 marks

Bio medical importance of nucleotides 5 marks

Properties of glyceride tri nitrate 3 marks Modified
amino acid in collagen? 2 marks

enzyme as energy currency 5 marks

waxes and its properties

classification of enzyme lipids and

its two types cGMP three function

nucleotide as energy currency of cell 3 marks
describe domain in synthesis in protein 2 marks
what is galactosylceramide 2 marks
lipids and its two types 2 marks
cGMP three function 2 marks
What is k_m in Michaelis equation of kinetics? Explain 5 marks
Bio medical importance of nucleotides 5 marks
What is hydrogenation in fats? 2 marks

what is enzyme kinetics? (2) what is N-glycosidic linkage? (2) What is galactosylceramide? (2) Two difference b/w fats and oils. (2) function of tRNA? (2)
explain the carbon and nitrogen number in nitrogenous base? (2) functional groups of purines and pyrimidines (3) three function of cGMP (3) give natural sources of waxes (3) give five properties of waxes (5) explain K_M of Michaelis-Menten..... (5) explain classification of enzymes (10)

Function of lipoxins (2)
Function of tRNA (2)
Function of Hsp70 (2)
What do you know about enzyme kinetics (2)
Diff b/w oxidative and hydrolytic rancidity (3)
Name of 3 pyrimidines (3)
 K_m in Michaelis-Menten equation (3)
Function of cGMP (3) properties of waxes (5) Characteristics of pentose sugar (5)
Classification of enzyme (5)

202..19-8-17

Difference b/w structure of guanine and cytosine
Synthesis of lipoxins
Name of amino acids found in collagen
Enzyme classification
Oxidative and hydrolytic rancidity
5 Properties of TAGs
3 Functions of cGMP
How light is produced in fireflies
Structural importance and contractile protein
Function of tRNA

Bio 202

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- 6) What is the function of tRNA? (2)
- 7) What is meant by proteins folding? (3)
- 8) Give three function of cGMP? (3)
- 9) How the carbon atoms are combined in Pentose sugar of nucleotides and nucleosides? (3)
- 10) What is meant by saponification number and give the end product of saponification? (3)
- 11) What do you know about Michaelis-Menten kinetic equation? Explain? (3)
- 12) Name the Pentose sugar present in melic acid and give its characteristics? (5)
- 13) Explain the process of hydrogenation with respect to fats? (5)
- 14) Write the enzyme classification in detail? (5)

Bio 202

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Bio 202

A.o.a.

#bio202: (#final term #paper)

16/08/2017 #timing: 08:00am #Short

question:

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Bio 202

[15/08, 2:04 p.m.] Rida Vu: Enzyme kinetics.simple lipids.nucleotide function.classification of enzymes.km of michaelis kinetics equation.types of lipoproteins.acidity and its factors.kinetic rate .amino acids in beta helix.catalytic proteins

[15/08, 2:05 p.m.] Rida Vu: Why protein does not stabilize in alpha helix

[15/08, 2:05 p.m.] Rida Vu: Function of cGMP

Bio 202

[16/08, 9:54 a.m.] : Bio202. properties of waxes function of cGMP Fat and Oil difference ,saponification, Define Amolyte

[16/08, 9:54 a.m.] Tahira: Equation of Michaelis-Menten.

[16/08, 9:55 a.m.] Tahira: Enzyme kinetics

[16/08, 10:10 a.m.] Tahira: Glycosylceramide (2)

[16/08, 10:11 a.m.] Tahira: Nucleoside and Nucleotide numbering.

[16/08, 10:11 a.m.] Tahira: Bases in Nucleic acid and properties.

[16/08, 10:12 a.m.] Tahira: Classification of enzymes 5 marks.

Bio 202

Bio-202 11 am (Final term) Paper :P

- Q. What are anomers [2]
- Q. Two proteins contain Selenocysteine and what is the function of these proteins [2]
- Q. Write Unnatural pyrimidine Bases [2]
- Q. Write function of bile salt [2]
- Q. Write composition of bile salts [2]
- Q. Define Enzyme kinetics [2]
- Q. Function of tRNA [2]
- Q. Write glucogenic Amino Acids [3]
- Q. 3 function of cGMP [3]
- Q. 3 properties of Glycerol [3]
- Q. Synthesis of lipoxin [3]
- Q. Michealis KM equation [3]
- Q. Explain Primary structure of DNA [5]
- Q. 5 Properties of waxes [5]
- Q. Explain Enzyme classification [5]

#MCQS were half easy and half tough

Bio 202

Bio-202 11 am (Final term) Paper :P

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- Q. Synthesis of lipoxin [3]
- Q. Michealis KM equation [3]

Q. Explain Primary structure of DNA [5]

Q. 5 Properties of waxes [5]

Q. Explain Enzyme classification [5]

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Bio 202

Bio 202

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Bio 202

(Bio 202 mcq)

(1) DNA helix the two strand of DNA hold together by

Ans: hydrogen bond.

(2) pKa value of alanine

Ans.: (2-3)

(3) purine include

Ans. cytosine and guanine

(4) Thymine and uracil d/f by only one - group

Ans: methyl

(5) Triacylglycerols the fatty acid are joined together to glycerol by

Ans: ester linkage

(6) which are following of halogen

Ans:hydrogen

(7)HDL contain-%protein Ans:
55%

(8)About -percent of CO₂ is carried in blood as bicarbonate
Ans; 25/30

(9)number of palmitic acid
Ans:16

(10)bile is a fluid that is made and released by - and stored
Ans:liver and gallbladder

(11)RNA is referred
Ans: copy of DNA

(12)KW for water at 25°C
Ans: 10⁻¹⁴

(13)The d/f b/t the energy level of ground state is the
Ans: activation energy

(14)Aromatic of Amino group
Ans: phenylalanine

(15)carbohydrates and lipids form together form
Ans: glycosphingolipids

(16)polysaturated fatty acid contain_ number double bond
Ans: more than one

(17)optimum pH of pepsin
Ans:7

Questions Bio 202

Qno:1 What do you about rigid and left shift equilibrium of oxy.hemoglobin to proton interaction also what is the positive and negative...allosteric?

Qno2: what do you know Michaelis equation explain?

(Qno 3)

Kinetic enzyme?

(Qno4) name pentose sugar present in nucleic acid and characteristics?

(Qno5) name of d/f types of Lipoproteins?

(Qno6)

What is the mean of Galactoceramide?

(Qno 7) difference b/w Nucleotide and nucleoside?

(Qno8)

function of Transfer RNA

(Qno9) cGMP function?

(Qno10)

How carbon atoms number in pentode sugar of nucleotide and nucleside?

(Qno11)

Iodine number and important?

(Qno12)

Cooperative bonding?

(Qno13)

Enzyme classification?

(Qno14)

Process of hydrogenitation of fats?

(Qno15)

Name of analine sugar present in hyalumatic acid and chondrotin?

Bio 202

Bio 202 2:30

What is stereoisomer How
lipoxin is synthesied how
thymine differ from uracil

Function of tRNA

Function of CGmp

Fiunction of cAMP

Properties of wax

Classification of enzyme

Bio 202

Bio 202 at 2..30 Q what are tatumerism? Q function of tRNA.?Q what is
galactosylceramide?Q define randicity and it's factors ?Q give properties of nitrogenous bases?
What are enzyme kinetics? Describe the classification of enzyme in detail

Bio 202

Bio202 final paper

At 11:00 am

1:what is enzyme kinetic?(2)

2:what is N-glycosidic linkage?(2)

3:What is galactosylceramide?(2)

4: Two difference b/w fats and oils.(2)

- 5: function of tRNA?(2)
- 6: explain the carbon and nitrogen number in nitrogenous base?(2)
- 7: functional groups of purines and pyrimidines(3)
- 8: three function of cGMP(3)
- 9: give natural sources of waxes(3)
- 10: give five properties of waxes(5)
- 11: explain K_M of Michael-Menten..... (5)
- 12: explain classification of enzymes(10)

Bio 202

bio 202 final term 11 AM

13 aug

32 MCQs

- 33....wt r stereoisomers? 2m
- 34....describe the function of protein disulfide isomerase. 2m
- 35....describe the formation of banaspati ghee from oil. 2m
- 36...wt is meant by galactosylceramide? 2m
- 37... 2 function of lipoxins. 2m
- 38.... wt u know about enzyme kinetics. 2m
- 39.... function of tRNA. 2m
- 40....why glycine does not occur frequently in alpha helix? 2m
- 41...give importance of nucleotide 1...carrier of intermediate. 2...coenzyme. $1.5 \times 2 = 3m$
- 42....3 function on cGMP. 3m
- 43....3 properties of glycerol. 3m
- 44...wt do u know about K_M of Michael-Menten kinetics equation. 3m
- 45... 5 function of cAMP. 5m
- 46....xplain process of hydrogenation w.r respect to oil. 5m
- 47.... wrt down Enzyme classification in detail. 5m

Bio 202

Bio202 biochemistry final term at 11:00 am
 enzyme as energy currency 5 marks waxes
 and its properties classification of enzyme

lipids and its two types cGMP three
function

Bio 202

Bio 202 5:00 pm

Function of lipoxins(2)
Function of tRNA (2)
Function of Hsp70 (2)
What do u know about enzyme kinetics (2)
Diff b/w oxidative and hydrolytic rancidity(3)
Name of 3pyrimidine (3)
Km in Michaelis-Menten equation (3)
Function of cGMP (3) properties
of waxes (5)
Characteristics of pentose sugar (5)
Classification of enzyme (5)

Bio 202

Bio 202 5:00 pm

Function of lipoxins(2)
Function of tRNA (2)
Function of Hsp70 (2)
What do u know about enzyme kinetics (2)
Diff b/w oxidative and hydrolytic rancidity(3)
Km in Michaelis-Menten equation (3)
Function of cGMP (3) properties
of waxes (5)
Characteristics of pentose sugar (5)
Classification of enzyme (5)