

Virtual University of Pakistan

Bio202

Biochemistry I

Final term Past Papers

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Course Instructor

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Created By

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Group of VU Biologists

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Bio 202

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Galactosylceramide, amide group of asparagine, Rate limiting Step in Folding process, essential Amino Acid, Sterols , cGMP , 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 ribose. Exp the nucleotide ad intermediate and the co enzyme . and two signaling mole of nucleotideenjoy learning frndz

Formation of D fructose and D rhamnose

Native protein

Secondary n tertiary structure

Functions and synthesis of

Lipoxine

N glycosidic bond

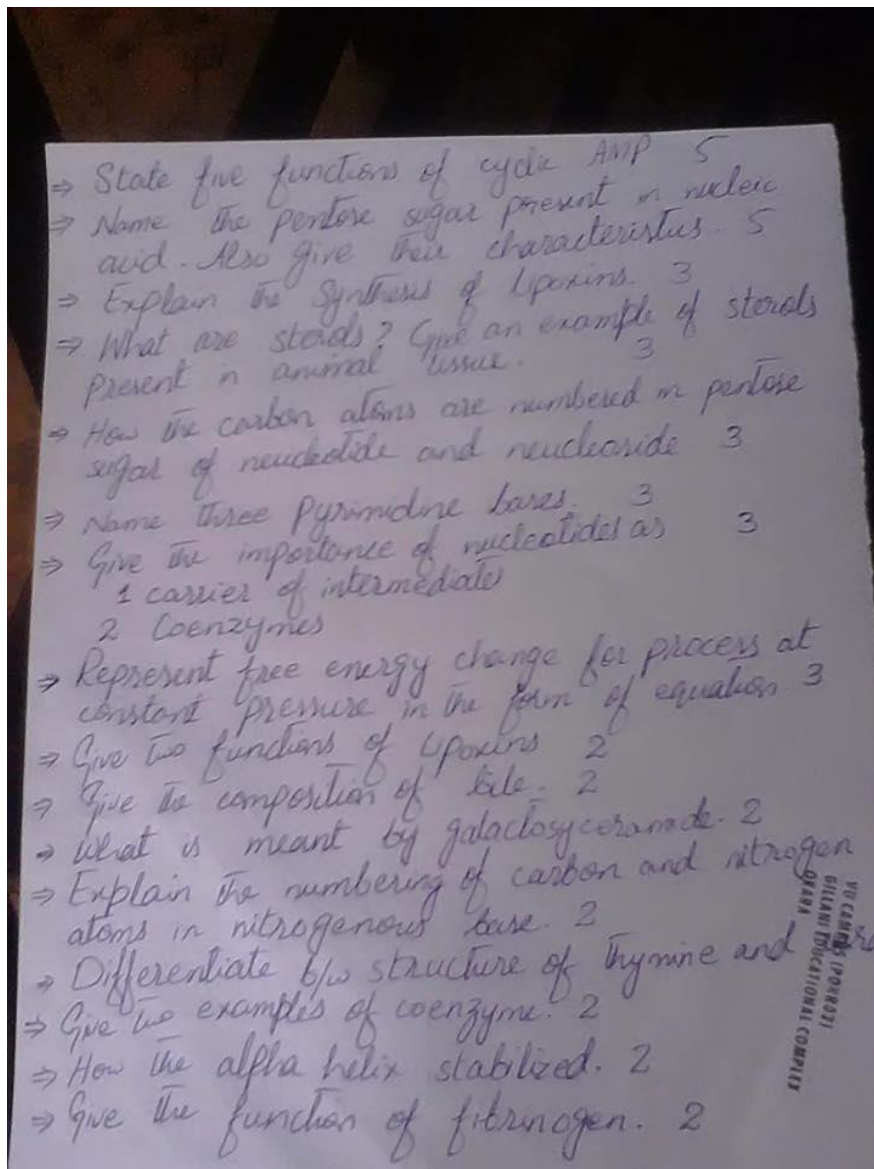
Digestive protein

interaction of DNA

Purines n pyrimidine

galactocerebroamide

Glycerols



Synthesis of lipoxins 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 and its classification 10 marks

What are waxes write properties and classifications 10 marks

Mcqs mostly proteins and enzymes topics me se to mushkil 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 we make 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 mrks

waxes and its types?10 marks

enzyme and its classification?10 mrks

MCQz

1torr=. ---mmHg

DNA absorbe light of -----nm.

Bio202

Waxes and its type and ts characteristic

enzymes and its classification

name the pentagon sugars in nucleic acid and its characteristic.

.Role of nucleotide energy currency in cell

Simple lipide and types

three functions of primidines and purines.

differentiate between adenini and guanine

Iodine numbr 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

sponification and its end products. 3 marks

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.enzymes and its classification. 10 marks

2 examples of unnatural pyrimidine bases. 2 marks.

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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 km of 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 km 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 are galactosylceramides 2 marks
simple 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 kinetic? (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 pyrimidine (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 aminoacids 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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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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- 3) Give the composition of TAGs? (2)
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- 5) What do you know about enzyme kinetics? (2)
- 6) What is the function of tRNA? (2)
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#Long question:

- 12) Name the Pentose sugar present in nucleic 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

[15/08, 2:04 p.m.] Rida Vu: Enzyme kinetics.simple lipids.nucleotide function.classification of enzymes.Michaelis-Menten kinetics equation.types of lipoproteins.pH 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

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

[16/08, 9:54 a.m.] Tahira: Equation of 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: Nucloside 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

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- Q. 3 properties of Glycerol [3]
- Q. Synthesis of lipoxin [3]
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- Q. Explain Primary structure of DNA [5]
- Q. 5 Properties of waxes [5]
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#MCQS were half easy and half tough

Bio 202

Bio 202

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Bio 202

(Bio 202 mcq)

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

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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)Triacylycerols the faty 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 gallablader

(11)RNA is reffered

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 pipsin

Ans:7

Questions Bio 202

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

Qno2:

what do u 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 Glactoceromide?

(Qno 7)

difference b/wNucleotid and nucleoside?

(Qno8)

fuction 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 hyalurnic 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

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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 niyrogeneous base?(2)
- 7: functional groups of purines and pyramidines(3)
- 8: three function of cGMP(3)
- 9:give natural sources of waxes(3)
- 10:give five properties of waxes(5)
- 11: explain KM 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 halix? 2m
- 41...give iportance of nucleotide 1...carrier of intermediate. 2...coenzyme. 1.5×2=3m

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- 42....3 function on cGMP. 3m
43....3 properties of glycerol. 3m
44...wt do u know about KM of michalis-meten kinetics equation. 3m
45... 5 function of cAMP. 5m
46....xplain process of hydrogenation wd respect to oil. 5m
47.... wrt down Enzyme classification in detail. 5m

Bio 202

Bio202 biochemistry final term at 11:00 am
enezyme as energy currency 5 marks
wexes 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)

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Bio 202 2:30

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Properties of wax

Classification of enzyme

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

Bio202 final paper

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- 5: function of tRNA? (2)
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bio 202 final term 11 AM

13 aug

32 MCQs

- 33....wt r stereoisomers? 2m
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- 41...give importance of nucleotide 1...carrier of intermediate. 2...coenzyme. 1.5×2=3m
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- 44...wt do u know about KM of Michaelis-Menten kinetics equation. 3m
- 45... 5 function of cAMP. 5m
- 46....explain process of hydrogenation w.r respect to oil. 5m
- 47.... write down Enzyme classification in detail. 5m

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, 11am , 12th aug

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 agar kisi ko is ka ans ata tou plz mujy bi bata dy ky hum ny ye bio chem mai kaha para

Or baqi questions and mcqs proteins sy aye ty final term ky syllabus sy jst yahi questions aye ty

enzyme classification marks 5 BIO 202 12 AUG 11AM

nucleotide as energy currency of cell 3 marks

describe domain in synthesis in protein 2 marks

what are galactosylceramides 2 marks

simple lipids and its two types 2 marks

cGMP three function 2 marks

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

Bio medical importance of nucleotides 5 marks

What is hydrogenation in fats? 2p marks

Bio202 final paper

At 11:00 am

1: what is enzyme kinetics? (2)

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

3: What is galactosylceramide? (2)

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

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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 Michaelis-Menten..... (5)

12: explain classification of enzymes (10)

Bio 202 5:00 pm

Function of lipoxins (2)

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Function of tRNA (2)
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Bio 202 5:00 pm

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bio202

1. Characteristics of enantiomer?
- 2.give the importance of sorbitol?
3. What is meant by pKa ?
- 4, function of cGMP.
- 5.rancidity and factor that effect it?
- 6.nucleotides as carrier intermediate and co enzyme?
- 7.what is enzyme? And give its classification?
8. Difference b/ w nucleoside and nucleotides?

Bio202

8:00 am

40 Mcqs

Sphengoaclamides

Negative amino acids

Nucleotide formula components

D-amino acids with example

Classification of enzyme

Enzyme defination+classificatio and examples

Pentose sugars of nucleic acids

cGMP functions