Virtual University of Pakistan

(Bi0303)

(Biochemistry II)

Midterms Past Papers

Email address

Bio303@vu.edu.pk

Course Instructor

Dr. Ayesha Maqbool

Created By Zareen Fatima

Group of VU Biologists

www.facebook.com/vubiologists

www.facebook.com/groups/vubiologists

Bio303
2-july-2018 ....10:30am
Qno.1.write the phenomenon of phosphoryl group transfer by example of phosphocreatine(pcr).(5)
Qno.2. differentiate between DNA and RNA.?(5)
Qno.3 define high energy and low energy compounds?(3)
Qno.4. what are lyase.give example?(3)
Qno.5. how ribonucleotide held together?(2)
Qno.6.write about the thermodynamically unstable the condition reaction?(2)
Objective
Some variation are
1- phosphoenolpyruvate contain a phosphate ester bond that undergoes to yeild to .....form of pyruvate.
2-equilibrium constant is .....
3-in a surface technique ,the microrganism are cultivated on the surface of .....
4-..... Is essentially expensive but essential glycolysis.
5-glyconeogensis and glycolysis shared ..... reversible steps.
6-non-protein moiety is a metal ion such as Zn2+ or Fe2+ is .....
7-ΔG° is a way of expressing the ..... Of the reaction.
8-miRNA is the type of ....
9-single stranded globular molecule is .....
10-pyruvate is reduced into lactate in which process.....
11-ligand bind at .....site.
12-Vo is expressed as..... volume.
13-RNA is polymer of.....
Baki sb repeat ho rhy...

Biochemistry ll (bio303) 1. How ATP synthase do the chemical work in the inner mitochondrial membrane? 2. What is the 1st step of non oxidative pathway of pentose phosphate pathway? 3. What is cori cycle and its substrate? 4. What is continous fermentation process? 5. Ping pong mechanism? 6. What is ncRNAs?

Biochem - II (Bio303) today paper (7:30)
write the name of two molecules which can be formed after energy donate from ATP (2)
what is hydrolase ? (2)
write the three main operations of fermentation ..... (3)
what is transaldolase . write its function ? (3)
what are ncRNA ? (5)
Write the fates of pyruvate under anaerobic condition.? (5)

Mcqs easy thy

bio303 mid term
Give names of some industrial products fermentation and the products they form in industry?

Three major fates of animals and vascular plant
3 advantages of fermentation
bioenergetic
baqi bhol gai me.
mcqs zeyad tar pyruvate se related the

Bio303...
What is isozyme?
Submerged fermention ?
What is snRNA?
Write first 5 steps of glycolysis ?without write name of enzyme ?
How can ribonucleotide combine ??
What is binding site of ligand?

bio303
define bioenergetics
components of fermentor
cause of gulcagon on liver
function of catalase
strandard free energy and actual free energy difference

My today paper of BIO303 MID (11-06-2017)
Total Q 26 (40 marks)
20 Mcqs
4 short Q (2 and 3 marks)
1. Write full name of NAD and NADP?
2. What is function of translekotase?
3. What is tRNA Write its function?
4. What Three main steps in which an operation of fermenter broken down at industrial scale?
Long Q 2 (5 marks?
1. Write down experiment of Arthur and Melliin in 1906 o yeast Extract?
2. What is snRNA? Explain it.

Mid Past papers 2016:-

Accepter of tRNA

Denaturation of DNA

Bioenergetics

Diff between actual free energy and standard free energy

Pentose phosphate pathway

NAD and NADP stand for.

transketolase

name three elcetron carrier of ETC cylce

define glycogenosis

what are fate of pyruvate under anaerobic condition

what are cnRNAS

1_why sterilization is essential during fermentation process in industry?

2_why transketolase requires cofactor during Pentose phosphate pathway?

3_Name organ in which glucose transporters are found and name of 3 transporters

4_ advantages of fermentation

5_components of fermenter

6_features of DNA denaturation and circumstances which cause DNA denaturation in LabsWhat is glycolysis?

Write 5 steps of glycolysis?

Name steps of synthesis of phosphophenolpyruvate from pyruvate?

Primary structure of tRNA?

Industrial fermentation important in three main stages name them?

BIO303
MCQS
Some mcqs are same as already mentioned in group,Some others are:
1.Two strands of DNA are_____to each other.
2.80% of RNA is_____
3.Transformation of RNA into DNA is also known as_____
4.About lysaes
5.Ligand binds at_____site.
6.Animals use chemical fuel as_____ (opt:heat,heat and motion etc)
7._____is placed in liquid medium (opt:surface,submersion,both or none)
Questions:
1.Why sterilisation is essential in fermentation? (2)

2.In which conditions renaturation of DNA takes place? (2)
3.Define gluconeogensis? (3)
4.Write 6 types of fermenter...?
5.Glycolysis from pyruvate is via 3 other courts,name them and write on oxidation state..? (5)
6.What is snRNA? (5)

Bio303

29 December 2016, 12:00
Accepter of tRNA
Denaturation of DNA
Bioenergetics
Diff between actual free energy and standard free energy
Pentose phosphate pathway

Bio303

NAD and NADP stand for.
transketolase
name three elcetron carrier of ETC cylce
define glycogenosis
what are fate of pyruvate under anaerobic condition
what are cnRNAS

Bio303
1_why sterilization is essential during fermentation process in industry?
2_why transketolase requires cofactor during Pentose phosphate pathway?
3_Name organ in which glucose transporters are found and name of 3 transporters
4_ advantages of fermentation
5_components of fermenter
6_features of DNA denaturation and circumstances which cause DNA denaturation in Labs

BIO303
MCQS
Some mcqs are same as already mentioned in group,Some others are:
1.Two strands of DNA are_____to each other.
2.80% of RNA is_____
3.Transformation of RNA into DNA is also known as_____
4.About lysaes
5.Ligand binds at_____site.

6.Animals use chemical fuel as_____ (opt:heat,heat and motion etc)
7._____is placed in liquid medium (opt:surface,submersion,both or none)
Questions:
1.Why sterilisation is essential in fermentation? (2)
2.In which conditions renaturation of DNA takes place? (2)
3.Define gluconeogensis? (3)
4.Write 6 types of fermenter...?
5.Glycolysis from pyruvate is via 3 other courts,name them and write on oxidation state..? (5)
6.What is snRNA? (5)

BIO303

What is glycolysis?
Write 5 steps of glycolysis?
Name steps of synthesis of phosphophenolpyruvate from pyruvate?
Primary structure of tRNA?
Industrial fermentation important in three main stages name them?

bio303
Paper bio 303
What is isozyme
Write 3 benifit of fermentation
Write down the effect of camp casecade of liver
Wriye down the five stp of glycolysis. Without mention the name of enzyme

Bio303
Nucleaophiles and electrophiles ?? 2
What is hyperchromiticy in denaturation of dna?2
Name 6 type of fermenter
First three step of glyconeogenesis
Types of RNA and what is sn RNA 5
Name of 6 phosphorylated molecules