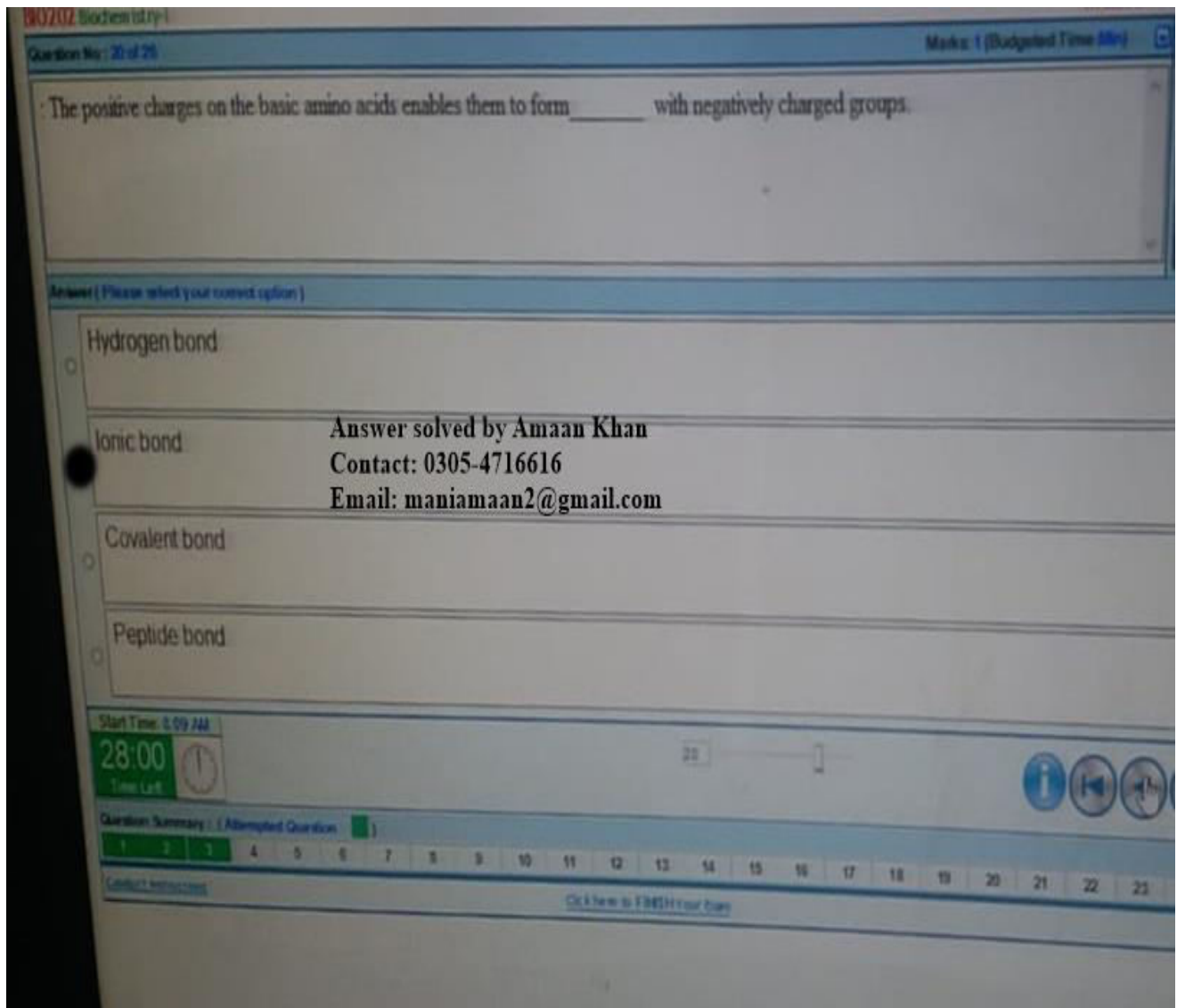


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BIO 202 Current Final term Spring 2021

1. The Trans form of maleic acid is called _____. **Fumaric Acid**
2. Benedict test formation cuprous oxide indicated by formation _____. **Red ppt**
3. Building block of protein is _____. **Amino Acid**
4. _____ is deletion of a larger portion of the polypeptide chain. **Sickle Cell anemia**



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BIOL202 Biochemistry I

Question No: 20 of 20

Mark: 1 (Budgeted Time)

The positive charges on the basic amino acids enables them to form _____ with negatively charged groups.

Answer (Please select your correct option)

Hydrogen bond

Ionic bond

Covalent bond

Peptide bond

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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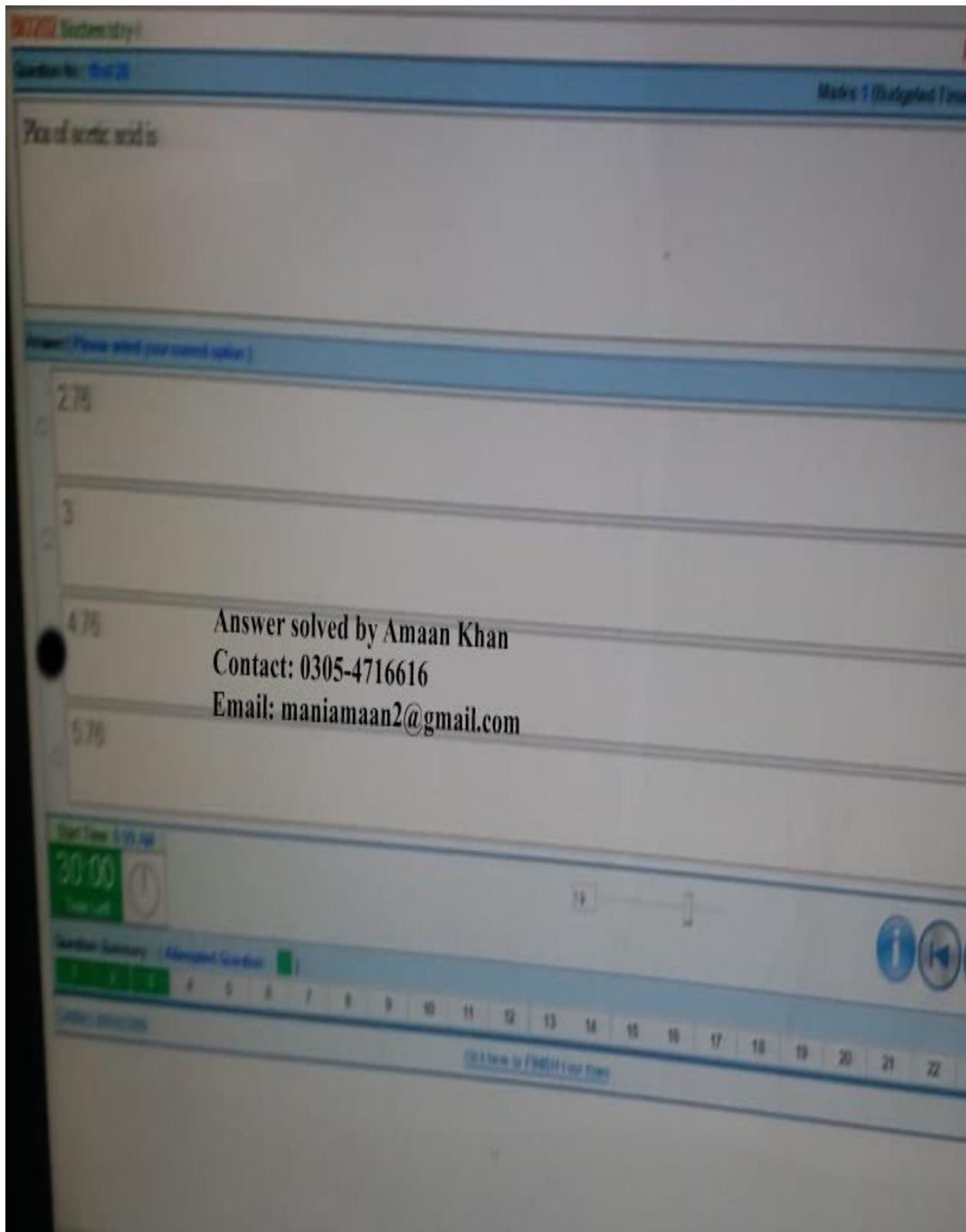
29:00 Time Left

Question Summary (Attempted Question)

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BIO202 Biochemistry-I

Question No.: 19 of 26

Marks: 1 (Budgeted Time)

pKa of acetic acid is:

Answer: (Please select your correct option.)

2.76

3

4.76

5.76

Start Time: 9:59:48

30:00 Time Left

Question Statistics: Attempted Question

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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BIO202 Biochemistry-I

Question No.: 18 of 26

Marks: 1 (Budgeted Time)

The rate of any reaction is determined by _____.

Answer: (Please select your correct option.)

Concentration of reactants

Concentration of products

Concentration of substrate

All

Start Time: 9:59:48

30:00 Time Left

Question Statistics: Attempted Question

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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BIO202 Biochemistry-I

Question No: 17 of 26 Marks: 1 (Budgeted Time)

A definite charge bearing site of an enzyme on which a chemical substance attaches itself is called _____.

Answer (Please select your correct option)

Active site

Available site

Catalytic site

Binding site

Answer solved by Amaan Khan
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30:00 Time Left

17

Question Summary (Attempted Question)

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BIOL202 Biochemistry I

Question No. 16 of 26 Marks: 1 (Budgeted T

tRNAs compose roughly _____ of total cellular RNA.

Answer: (Please select your correct option.)

10%

20%

30%

40%

Start Time: 1:19:48

31:00

Question Summary: Attempted Questions: 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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BIO202 Biochem Istry-I
Question No: 14 of 25
Marks: 1 (Budgeted Time 5)

The 3'-5' strand is called _____

Answer (Please select your correct option)

Template strand

Non template strand

Coding strand

Messenger RNA like strand

Start Time: 8:59 AM
31:00 Time Left

Question Summary: (Attempted Questions)

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BIO202 Biochem Istry-I
Question No: 13 of 25
Marks: 1 (Budgeted Time 5)

Inositol has same chemical formula as _____

Answer (Please select your correct option)

Fructose

Amylose

Lactose

Glucose

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Question Summary: (Attempted Questions)

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BIO202 Biochem (2/1)

Question No: 15 of 26

Marks: 1 (Budgeted Time)

Instead of thymine, RNA contains the ribonucleotide of _____.

Correct Option is present in this M.C.Q

Answer: (Please select your correct option)

Messenger RNA

Transfer RNA

Ribosomal RNA

All

Uracil

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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15

Question Summary: Attempted Question

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BIO202 Exam 1 try-1

Question No: 12 of 28 Marks: 1 (Budgeted Time)

Reversible inhibitors bind to enzyme through:

Answer: Please select your correct option(s)

- Non covalent bonds
- Ionic bonds
- Hydrogen bonds
- Covalent bonds

Start Time: 1:59 AM
32:00 Time Left

Question Summary | Answered Question

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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BIO202 Biochemistry-I

Question No: 10 of 28

Marks: 1 (Budgeted Time)

The chief constituent of bees wax is _____

Answer (Please select your correct option)

myrcyl palmitate

cetyl alcohol

spermaceti

Glutamic acid

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10

Question Summary: Attempted Question 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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BIO202 Biochemistry-I

Question No: 11 of 25 Marks: 1 (Budgeted Time)

Bile is a fluid that is made and released by the _____ and stored in the _____.

Answer (Please select your correct option)

- gallbladder, liver
- stomach, gallbladder
- liver, gallbladder
- liver, small intestine

Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com

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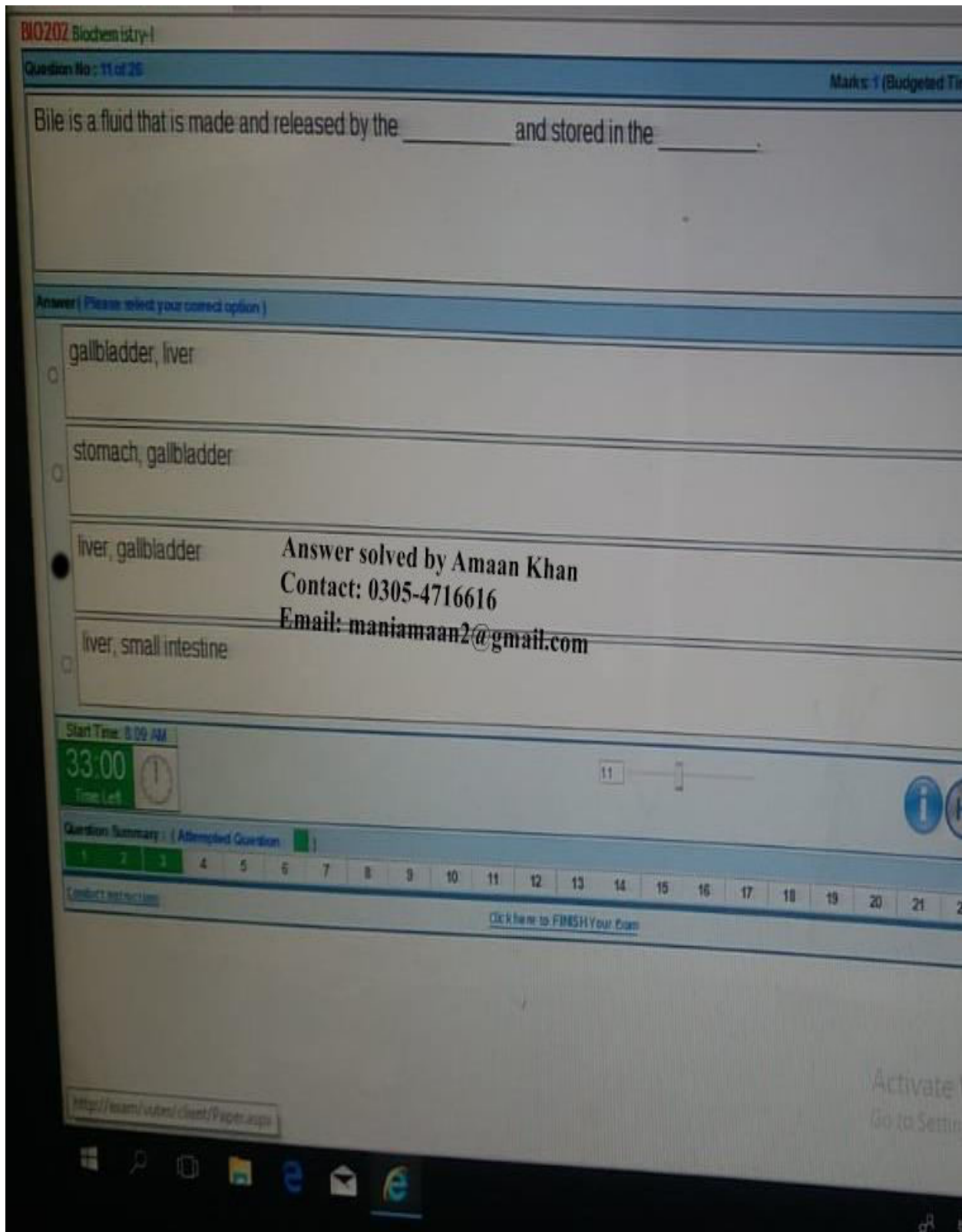
Question Summary: (Attempted Question)

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BIO202 Biochemistry-I

Question No: 8 of 25 Marks: 1 (Budgeted Time)

Glycerol is converted to L-Glycerol 3 phosphate by _____ linkage.

Answer (Please select your correct option)

- Glycerol phosphate dehydrogenase
- Glycerol dehydrogenase
- Glycerol kinase
- Pyruvate dehydrogenase

Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com

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Question Summary (Attempted Questions: 1)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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BIO202 Biochemistry-I

Question No : 9 of 25

Marks: 1 (Budgeted Time)

In triacylglycerols, the fatty acids are joined to glycerol by _____ linkage.

Answer (Please select your correct option)

- ether
- ester
- peptide
- glycosidic linkage

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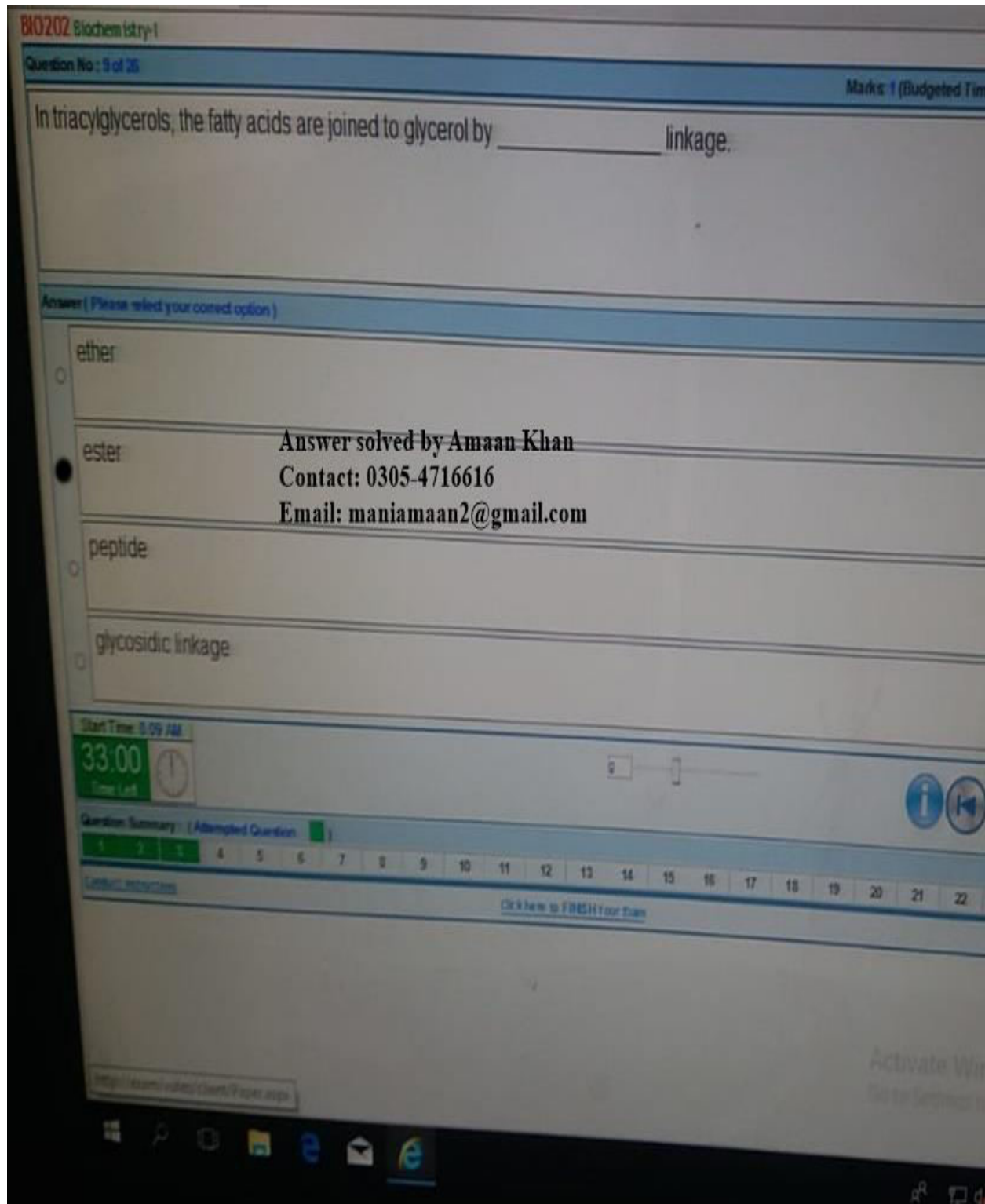
Question Summary (Attempted Question)

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BIOL207 (Biochemistry I)

Question No: 8 of 26

Marks: 1 (Budgeted Time)

Glycerol is converted to L-Glycerol 3 phosphate by _____

Answer (Please select your correct option)

- Glycerol phosphate dehydrogenase
- Glycerol dehydrogenase
- Glycerol kinase
- Pyruvate dehydrogenase

Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com

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Question Summary (Attempted Question)

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BIO202 Biochemistry-I Marks: 1 (Budgeted Time 30s)

Question No: 7 of 23

Thymine and uracil differs by only one _____ group.

Answers (Please select your correct option)


methyl Answer solved by Amaan Khan
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Email: maniamaan2@gmail.com


amino




ethyl

phosphate

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34:00  Time Left

7 

Question Summary: (Attempted Question)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
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Double bond is present between _____

Answer (Please select your correct option)

Guanine and Cytosine

Adenine and Thymine

Guanine and Adenine

Cytosine and Thymine

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35:00
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Question Summary: (Attempted Question)

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Answer solved by Amaan Khan
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BIO202 Biochemistry-I

Question No: 3 of 26 Marks: 1 (Subjected For)

Needle shaped osazones are given by _____

Answer (Please select your correct option)

Glucose **Answer solved by Amaan Khan**
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Maltose

Lactose

None of these

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Question Summary: (Attempted Question)

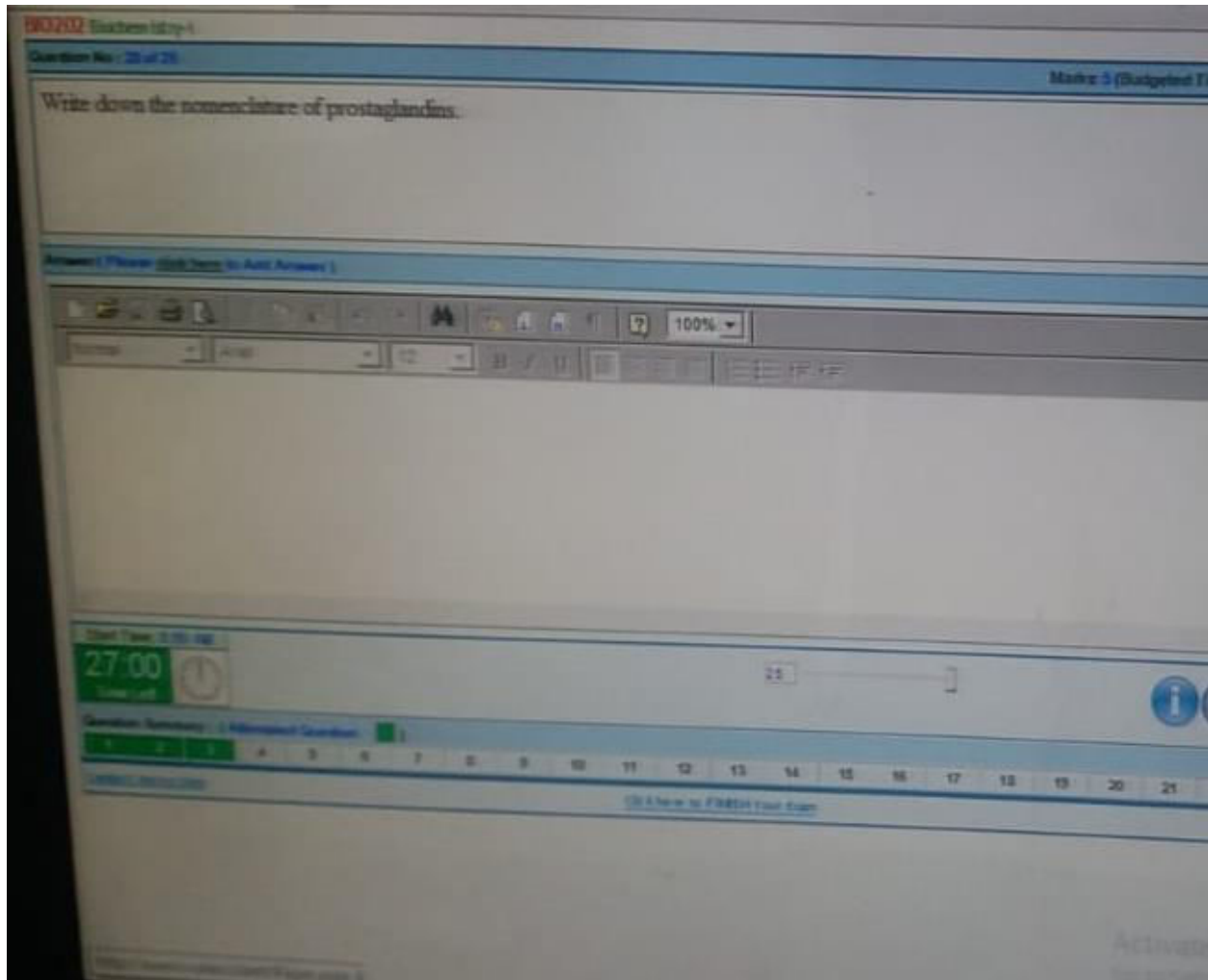
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

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Answer:

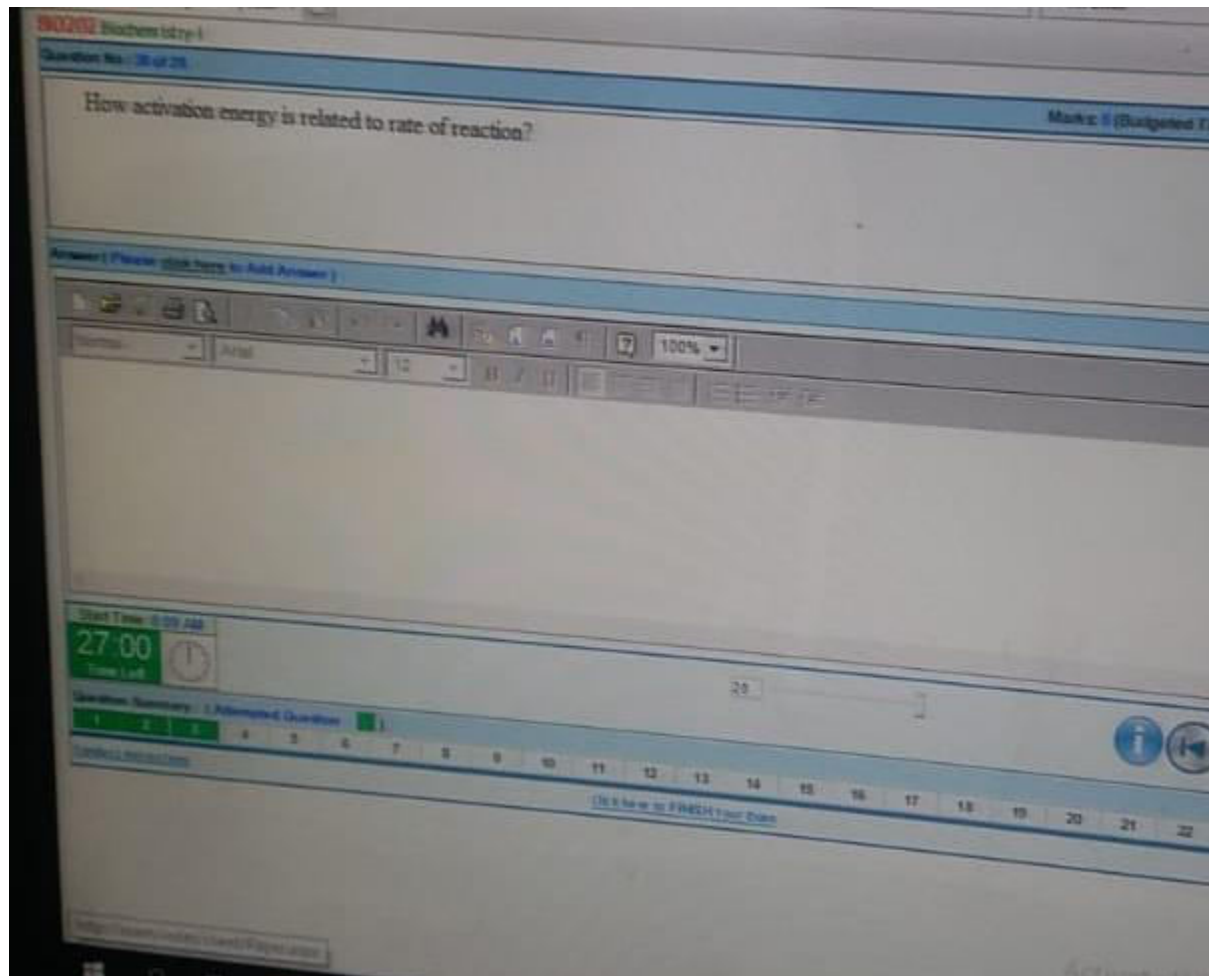
- Nomenclature of prostaglandins (PGs) involves the
- assignment of a capital letter (PGE),
- a numeral subscript (PGE1), and
- for the PGF family, a Greek letter subscript (PGF2 α).
- The capital letter refers to the ring substituents at positions X and Y
- The numeral subscript that follows the capital letter (e.g. PGE1) refers to the PG series 1, 2, or 3, determined by the number of

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unsaturated bonds present in the linear portion of the hydrocarbon chain.

- It does not include double bonds in the internal ring.
- The double bonds between carbons 13 and 14 are trans; the others are cis

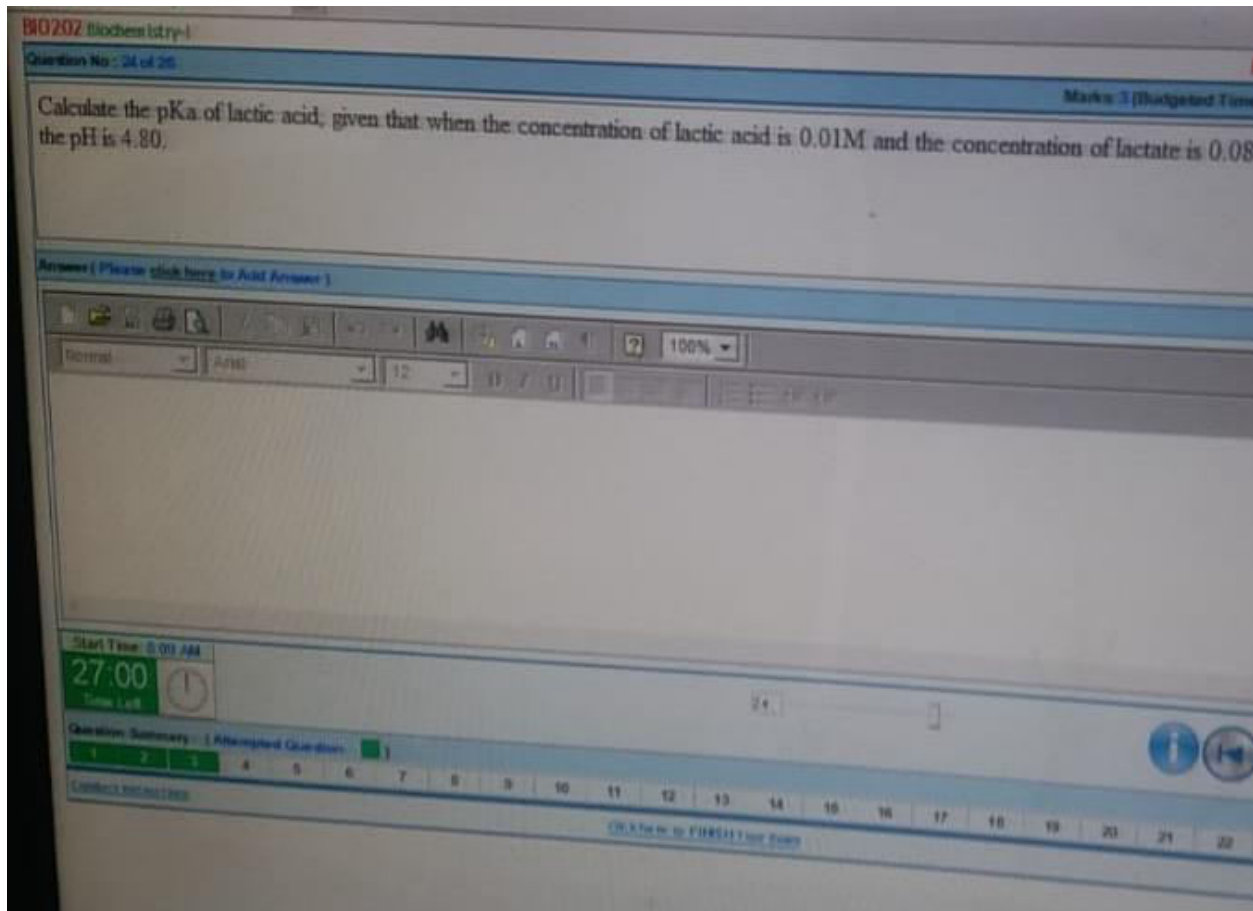


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Activation energies, G^\ddagger , • The activation energies, G^\ddagger , for the • $S \rightarrow P$ and $P \rightarrow S$ reactions are indicated. • G'^0 is the overall standard free-energy change in the direction $S \rightarrow P$

- The rate of a reaction reflects this activation energy: a higher activation energy corresponds to a slower reaction.
- Reaction rates can be increased by raising the temperature, thereby increasing the number of molecules with sufficient energy to overcome the energy barrier.
- Alternatively, the activation energy can be lowered by adding a catalyst.
- Catalysts enhance reaction rates by lowering activation energies
- The role of enzymes is to accelerate the interconversion of S and P.
 - i.e enzymes lower the energy of activation, ΔG^\ddagger , of a reaction.
- The enzyme is not used up in the process, and the equilibrium point is unaffected.

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$$\text{pH} = \text{pKa} + \log \frac{[\text{lactate}]}{[\text{lactic acid}]}$$

$$\text{pKa} = \text{pH} - \log \frac{[\text{lactate}]}{[\text{lactic acid}]}$$

$$\text{pKa} = 4.80 - \log \frac{0.087}{0.01}$$

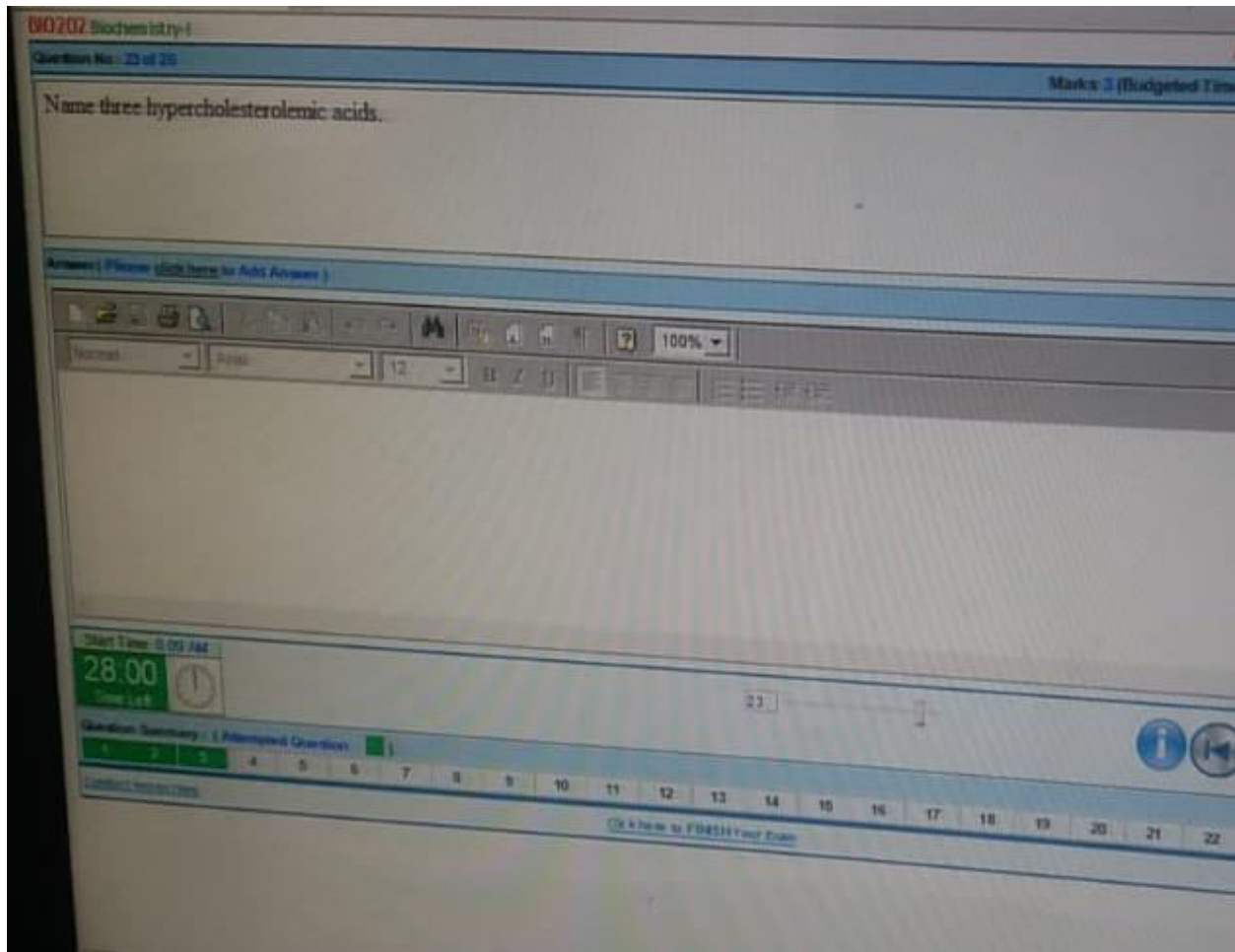
$$\text{pKa} = 4.80 - \log 8.7$$

$$\text{pKa} = 4.80 - 0.94$$

$$\text{pKa} = 3.9$$

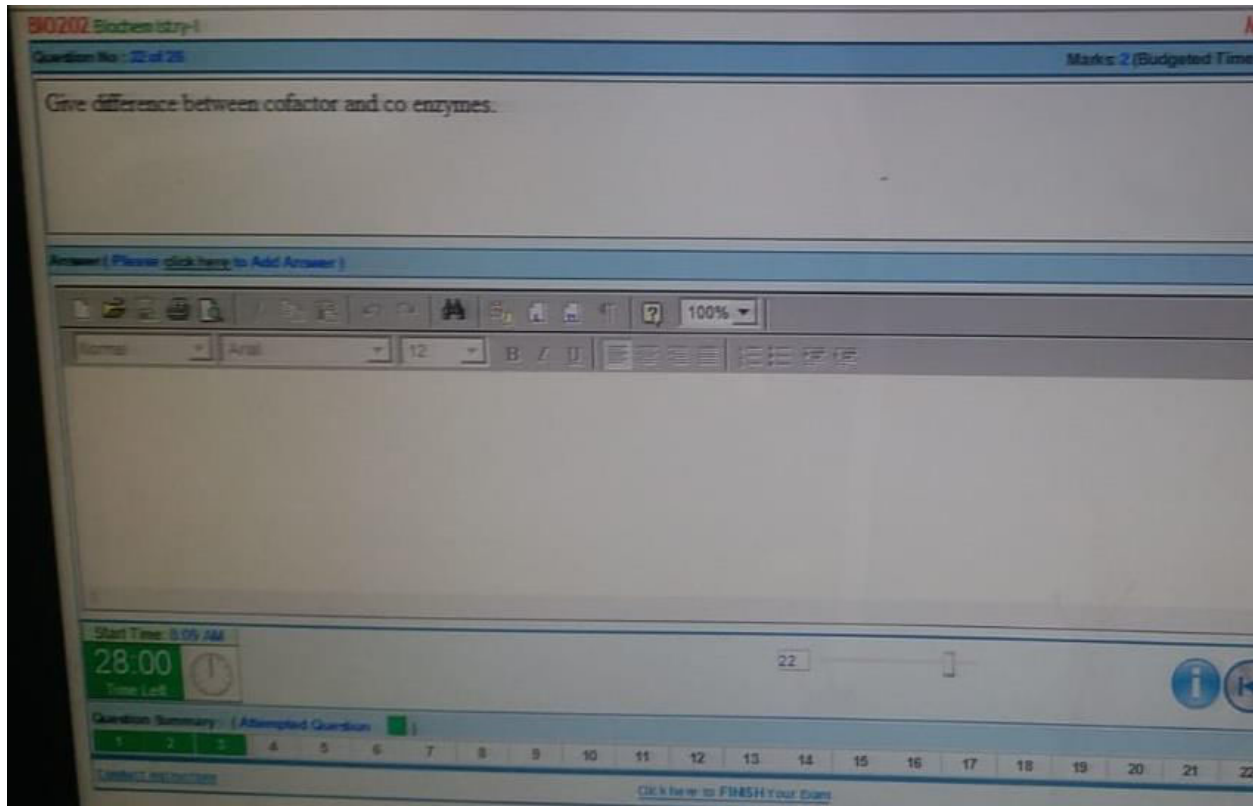
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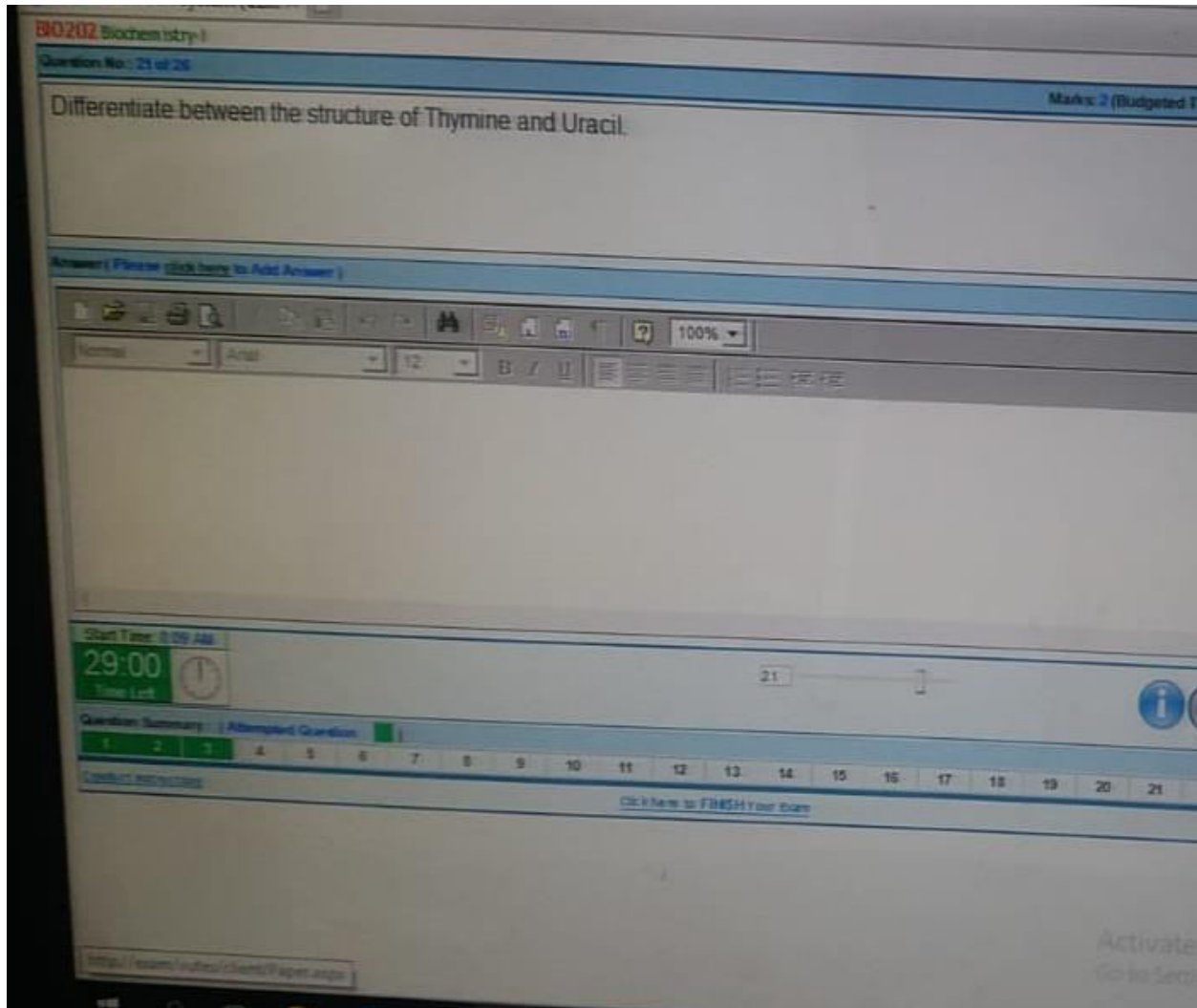
1. Lauric Acid
2. Myristic Acid
3. Palmitic Acid

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- If the non-protein moiety is a metal ion such as Zn^{2+} or Fe^{2+} , it is called a cofactor.
- If it is a complex organic molecule or metallo-organic compound it is termed a coenzyme.

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- Thymine is 2,4-dioxy-5- methyl-pyrimidine
- Uracil is 2,4-dioxypyrimidine

T and U differ by only one methyl group, which is present on T but absent on U