

C.U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name: Biochemistry - Theory

Subject Code: BP203T

Semester: 2

Date: 21/09/2022

Branch: B.Pharm

Time: 11:00 To 02:00

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1 Attempt the following questions: (20)**
- a) Define Uncouplers and give its example.
 - b) Explain Enzymes.
 - c) What are High Energy compound and give significance of ATP.
 - d) Write a note on Insulin.
 - e) Define Invert sugar.
 - f) Explain Cori cycle.
 - g) Write a note on Jaundice.
 - h) Define Zwitter ion.
 - i) Give any two example of Polysaccharide.
 - j) Define Biomolecule.
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- Q-2 Attempt any two of following : (20)**
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|----------|-------------------------------------------------------------------------|-----------|
| A | Write a detail note on DE NOVO Synthesis of fatty Acid (Palmitic Acid). | 10 |
| B | Explain Citric Acid cycle in detail with its energetics. | 10 |
| C | Write in detail Urea cycle. | 10 |
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- Q-3 Attempt any Seven of following : (35)**
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|----------|----------------------------------------------------|----------|
| A | Explain Transcription. | 5 |
| B | Write a brief note on structure of DNA. | 5 |
| C | Describe the Reaction of Amino Acid metabolism. | 5 |
| D | Explain Glycolysis with its energetics. | 5 |
| E | Write IUB classification of Enzymes. | 5 |
| F | Describe ETC mechanism. | 5 |
| G | Write down the classification of Carbohydrate. | 5 |
| H | Describe β - oxidation of fatty acid | 5 |
| I | Discuss DNA replication (Semi conservative model). | 5 |

