

B.Sc. - II (CBCS Pattern) Semester-III  
**USCZOT06 - Zoology Paper-II : Physiology & Biochemistry-I**

P. Pages : 1

Time : Three Hours



**GUG/W/24/11621**

Max. Marks : 50

- Notes :
1. All questions carry equal marks.
  2. All questions are compulsory.
  3. Draw well labelled diagram wherever necessary.

1. Give detail account on Urea Cycle. 10

**OR**

Write notes on-

- |                         |   |
|-------------------------|---|
| a) Transport of lipids. | 5 |
| b) Glycolysis.          | 5 |

2. Give an detailed account on factors affecting to enzymes activity. 10

**OR**

Write notes on-

- |                                  |   |
|----------------------------------|---|
| a) Chemical nature of enzymes.   | 5 |
| b) General properties of enzyme. | 5 |

3. Write an essay on Vitamins. 10

**OR**

Write notes on:

- |                                |   |
|--------------------------------|---|
| a) Gastro intestinal hormones. | 5 |
| b) Pancreas                    | 5 |

4. Explain the mechanism of transport of CO<sub>2</sub> . 10

**OR**

Write notes on:

- |                          |   |
|--------------------------|---|
| a) Effect of smoking.    | 5 |
| b) Respiratory pigments. | 5 |

5. Write from or five lines on the following solve **any ten**. 10

- |                     |                   |
|---------------------|-------------------|
| i) Uric acid        | ii) EMP pathway   |
| iii) Triglycerides  | iv) Cofactors     |
| v) Lyases           | vi) Isomerases    |
| vii) Insulin        | viii) Chief cells |
| ix) Night-Blindness | x) Haemoglobin    |
| xi) Asthma          | xii) Influenza    |

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