Z00/V/	07	(2)
2017 (5th Semester)		 Discuss the properties and types/ classification of enzymes. Or
ZOOLOGY		Write short notes on the following : $3\frac{1}{2}+3\frac{1}{2}=7$ (a) Enzyme inhibition
Paper : ZL-VII		(b) Water-soluble vitamins
(Biochemistry) Full Marks : 55		3. What do you understand by gluconeogenesis? Give a detailed account of the process of gluconeogenesis. 7
Time : $2\frac{1}{2}$ hours		Or What is glycogenolysis? Explain the various
(PART : B—DESCRIPTIVE)		steps involved in glycogenolysis.
(<i>Marks</i> : 35)		4. What is TCA cycle? Describe in detail the tricarboxylic acid cycle.7
The figures in the margin indicate full marks		Or
for the questions		Write a detailed note on ATP synthesis.
What are lipids? Describe the different types and significance of lipids.	7	 5. What is ketogenesis? Discuss the significance, various steps and reactions of ketogenesis.
Or		Or
What are amino acids? Give a detailed note on the classification of amino acids.		Explain β -oxidation of fatty acid in detail.
		* * *

8G**/229a**

1. What are

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ZOO/V/07

Subject Code : ZOO/V/07

Booklet No. A



To be filled in by the Candidate

DEGREE 5th Semester (Arts / Science / Commerce /) Exam., 2017
Subject Paper

INSTRUCTIONS TO CANDIDATES

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
- 2. This paper should be ANSWERED FIRST and submitted within $\underline{45 \ minutes}$ of the commencement of the Examination.
- 3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Date	Stamp	
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To be filled in by the Candidate
DEGREE 5th Semester
(Arts / Science / Commerce /
) Exam., 2017
Roll No
Regn. No
Subject
Paper
Descriptive Type
Booklet No. B

Signature of Scrutiniser(s) Signature of Examiner(s) Signature of Invigilator(s)

/229

2017

(5th Semester)

ZOOLOGY

Paper : ZL-VII

(Biochemistry)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION—A (Marks: 5)

Put a Tick (\checkmark) mark against the correct answer in the brackets provided : $1 \times 5=5$

- 1. Neutral amino acid contains
 - (a) one amino group and one carboxyl group ()
 (b) two amino groups and two carboxyl groups ()
 (c) one amino group and two carboxyl groups ()
 (d) two amino groups and one carboxyl group ()

/229

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(2)

- 2. Beriberi is a disease caused by deficiency of
 - (a) vitamin 1 ()
 - *(b)* vitamin ₂ ()
 - (c) vitamin ₃ ()
 - (d) vitamin $_5$ ()
- **3.** The conversion of glucose-6-phosphate to fructose-6-phosphate is catalyzed by
 - (a) phosphofructokinase ()
 - (b) phosphoglucose isomerase ()
 - (c) phosphoglycerate kinase ()
 - (d) phosphoglyceromutase ()
- **4.** How many ATP molecules are produced from the complete oxidation of a single molecule of glucose?

(3)

- **5.** In urea cycle, NH $_{\rm 3}$ and CO $_{\rm 2}$ reacts in the presence of ATP to form
 - (a) ornithine ()
 - (b) arginine ()
 - (c) aspartic acid ()
 - (d) carbamoyl phosphate ()

(4)

SECTION-B

(Marks : 15)

Write short notes on the following in not more than 5 to 8 sentences each : $3 \times 5 = 15$

1. Disaccharides

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(5)

2. Coenzymes

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(6)

3. Significance of glycolysis

4. HMP shunt

(8)

5. Synthesis of triglycerides

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