Total No. of Printed Pages-7

2 SEM TDC ZOO M 1 (N/O)

2018

(May)

ZOOLOGY

(Major) Course: 201

Time: 2 hours

The figures in the margin indicate full marks for the questions

(New Course)

(BIOCHEMISTRY)

Full Marks: 48

Pass Marks: 14

The most important buffer system

(ii) Krebs' cycle takes place in _____.

 $1 \times 5 = 5$

(Turn Over) ^{βp}/671

in blood is ____.

(a) Fill in the blanks:

(i)

(iii)	The calciferol	changes	to vitamin I	0
	on activation	by _		

- (iv) Xerophthalamia is caused due to the deficiency of vitamin ____
- (v) DNA has ____ instead of uracil.
- (b) Write short notes on the following: $2^{\times 4^{-\beta}}$
 - (i) Redox reaction
 - (ii) Essential amino acids
 - (iii) Storage form of fatty acid in plants and animals
 - (iv) Forms of RNAs
- 2. Define carbohydrates. classification of carbohydrates with example. brief 1+6=7 Pasteve willist story

Or

Why is amino acid called building blocks of protein? Write briefly about the different levels of organization in protein. 1+6=7 3. Why are enzymes known as bio-catalyst? Give in detail about the IUB classification of enzymes.

Or and anoda in the

What is vitamin? Write a brief note on 1+6=7 different types of vitamins.

4. Explain the different steps of Krebs' cycle.

Or

Write the different steps of β-oxidation of fatty acids and the fate of the end-product of β-oxidation.

5. Write about the molecular structure of DNA.

Or

Prove that DNA is the genetic material.

6. What is free energy? Define standard free energy change. Explain how biological reactions are governed by free energy 1+1+5=7 changes.

8P/671

(a singled)

8P/671

(Turn Over)

Or

Define high energy bound compounds. Describe the role of ATP and other high energy phosphates as energy carrier. $1+6^{27}$