2024

(FYUGP)

(5th Semester)

ZOOLOGY (Major)

Paper Code: ZOO/C10(T)

(Biochemistry of Metabolic Processes)

Full Marks: 75
Pass Marks: 40%

Time: 3 hours

The figures in the margin indicate full marks for the questions

 Differentiate between catabolism and anabolism. Write a note on the different stages of catabolism.
 10+5=15

Or

Explain the different types of shuttle system in detail. Write a note on the usage of reducing equivalents.

10+5=15

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2. Explain the sequence of enzymatic reaction involved in Krebs cycle. Write a note on the regulation of citric acid cycle. 10+5=15

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(Turn Over)

3.

5.

Or	
Write notes on the following: 7½×2	=15
(a) Glycogenolysis	
(b) Glycogenesis	
200	
Explain the biosynthesis of palmitic acid in detail.	15
(T)CIQ\\\Or\\\Or\\\\Or\\\\\\\\\\\\\\\\\\\\\\	
Explain the sequence of reaction involved in β -oxidation of even number fatty acid. Write a	
note on ketogenesis. 10+5=	=15
Explain the key enzymes involved and the biochemical reactions or steps of urea cycle. Or	15
Describe in detail the metabolic fate of C-skeleton of glucogenic and ketogenic amino acids.	15
Explain the mitochondrial respiratory chain in detail. Write a note on its functions.10+5=	=15
Discuss the effects of inhibitors and uncouplers on the electron transport system (ETS) in mitochondria.	15
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