

B.M.S COLLEGE FOR WOMEN AUTONOMOUS
BENGALURU – 560004

END SEMESTER EXAMINATION – SEPTEMBER / OCTOBER 2022

B.Sc - II Semester

Zoology-Biochemistry and Physiology

Course Code: ZOO2DSC02

QP Code:2017

Duration: 2 ½ Hours

Max. Marks: 60

Instructions: 1. Draw neat labeled diagrams wherever necessary.
2. Answer should be written completely in English.

SECTION-A

I. Answer the following in one word or one sentence: (5x1=5)

1. Name the storage polysaccharide present in animals.
2. Mention the sugar present in DNA.
3. Define tidal volume.
4. Mention the antibodies of blood group A.
5. Name a hormone of Islets of Langerhans.

SECTION -B

II. Answer any FIVE of the following: (5x3=15)

1. Define Isozymes with an example.
2. What are conjugate proteins? Give an example.
3. Citing an example define Co-factors.
4. Briefly explain transamination.
5. What is bile? Mention its role in digestion.
6. What is a human cardiac cycle?
7. Write short notes on muscle twitch.

SECTION -C

III. Answer any FOUR of the following:

(4x5=20)

1. Differentiate between saturated and unsaturated fatty acids with suitable examples.
2. Write an explanatory note on ketogenesis.
3. Give the schematic representation urea cycle.
4. With a neat labelled diagram explain the structure of a nephron.
5. Mention the functions of the following hormones:
 - a. STH
 - b. LH
 - c. Calcitonin
 - d. Prolactin
 - e. Oxytocin.
6. Explain different types of muscles.

SECTION -D

IV. Answer any TWO of the following:

(2x10=20)

1. Give an account on the factors affecting enzyme catalysed reactions.
2. With schematic representation explain citric acid cycle.
3. Explain the physiology of transport of respiratory gases in human blood.
4. Explain the conduction of nerve impulse in non- myelinated neuron.
