Nanasaheb Y. N. Chavan ASC College, Chalisgaon Department of Botany

SYBSc. Semester IV

Class Test-1

Botany Paper II: Plant metabolism Date: 03/02/2023

Topics: Unit 1 and 2 Marks: 20

Q. 1 Answer any FOUR

(04)

- 1) What are major parts of metabolism?
- 2) What is apoenzyme?
- 3) Who coined the term enzymes?
- 4) Define Anabolism
- 5) What is chemical nature of enzymes?

Q. 2 Answer any FOUR

(08)

- 1) Give any two examples of catabolism.
- 2) What are Transferases? Give example.
- 3) What is non-competitive inhibition?
- 4) Formation of simple sugars from carbohydrates is an example of which type of process?
- 5) What is prosthetic group?

Q. 3 Answer any TWO

(08)

- 1) Explain plant cell as Organic laboratory
- 2) Describe Lock and Key model of enzyme action.
- 3) Give classification of enzymes.

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Q. 1 Answer any FOUR

(04)

- a) Which process is endergonic?
- b) What are holoenzymes?
- c) Glycolysis is an example of which process?
- d) Aconitase, Aldolase, Carboxylase are the examples of which class of enzymes
- e) Who proposed Lock and Key model of enzyme action?

Q. 2 Answer any FOUR

(08)

- a) Enlist properties of enzymes.
- b) What are zymogens?
- c) Explain enzyme sensitivity to Temperature.
- d) What is allosteric site of enzyme?
- e) What is metabolism?

Q. 3 Answer any TWO

(08)

- a) Describe Induced Fit model of enzyme action.
- b) Enlist various organelles and their function from plant cell.
- c) Describe inhibition of enzyme action.

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Internal Examination at S. Y. B. Sc. Semester IV

Date: 06/02/2020

Paper II: Plant Metabolism Marks: 20

2. What is respiration? Explain Kreb's cycle.

Q. 1 Answer any **THREE** (06)1. What is an anaerobic respiration? 2. List external factors influencing photosynthesis 3. What are transferases? Give example. 4. What is metabolism? Q. 2 Answer any **TWO** (08)1. Explain plant cell as organic laboratories. 2. Describe induced fit theory of enzyme action. 3. What is non cyclic Photophosphorylation? 4. Describe Glycolysis. Q. 3 Answer any **ONE** (06)1. Describe in brief the process of Calvin's cycle.
