

OLABISI ONABANJO UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY
2018/2019 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: BCH 411

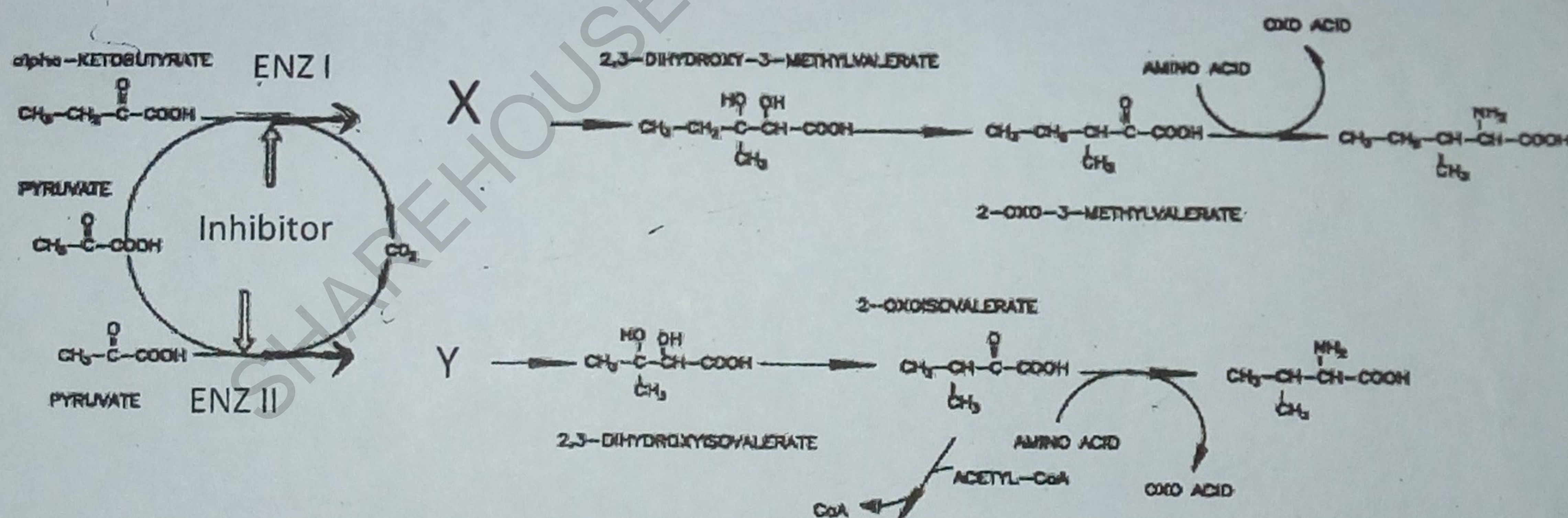
TIME: 2HRS

COURSE TITLE: PLANT BIOCHEMISTRY

Date: 2nd May 2019

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS ONLY.

1. With appropriate biochemical illustrations, discuss processes leading to formation of Starch in plant.
2. (a) List Five (5) Phytohormones you know.
 (b) Give the structures and four (4) functions each of any two (2) listed above.
3. (a) Highlight the four (4) stages of Plant Development.
 (b) With appropriate illustrations explain the mechanism of cell wall expansion during plant development.
4. (a) Give five (5) Herbicide classes you know with their molecular and physiological sites of action.
 (b) Explain briefly the mechanism of inhibition of lipid synthesis by herbicides via acetylcoenzyme A carboxylase inhibition.



Question 5

- (a) Give the names and structures of three (3) plant amino acids synthesized by the pathway above.
- (b) Give the names of the enzymes ENZ I and ENZ II in the pathway above.
- (c) Give two herbicide classes that serve as inhibitors of ENZ I and ENZ II →
- (d) Give the names and structures of X and Y