

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF PLANT BIOLOGY
FIRST SEMESTER BTECH. EXAMINATION, 2019/2020 SESSION

COURSE CODE: PLB 514

COURSE TITLE: INDUSTRIAL AND MICROBIAL BIOTECHNOLOGY

COURSE UNIT: 3

TIME ALLOWED: 2 HOURS

INSTRUCTION: *ANSWER FOUR (4) QUESTIONS IN ALL; AT LEAST TWO QUESTIONS FROM EACH SECTION*

SECTION A

- 1 a. What do you understand by White biotechnology?
b. Microorganisms which are used for industrial production must meet certain requirements, discuss.
- 2 a. Give an account of lactic acid bacteria as industrial microorganisms
b. Succinctly explain "antibiotics" as a microbial product
- 3 a. Write short notes on single cell protein.
b. briefly describe the production of mycoprotein

SECTION B

- 4 a. Briefly explain the following terms
i. Diazotrophs ii. diazotrophy
b. Outline the special features of diazotrophs
- 5 a. Write a comprehensive notes on 'leghaemoglobin'
b. Enumerate the benefits of biofertilizers
6. With relevant examples where necessary, explain
i. biocontrol of insect pests
ii. biocontrol of weeds