



**ELIZADE UNIVERSITY,
ILARA-MOKIN, NIGERIA**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE CODE: BTH 301

COURSE TITLE: ENVIRONMENTAL BIOTECHNOLOGY

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....

MAT. No:.....

INSTRUCTIONS: Answer ANY FOUR questions

1.
 - a. List 5 methods use in wastewater treatment and discuss on any 3 of them
 - b. What are the advantages of anaerobic treatment over aerobic treatment?

2.
 - a. Explain these terminologies: Molecular Ecology, Bioremediation, Biosensors and Biofuels
 - b. Discuss factors influencing bioremediation
 - c. List 7 benefits of biofuels

3.
 - a. Define Phytoremediation
 - b. Explain 3 approaches you will use for remediating a contaminated soil
 - c. There has been a hydrocarbon contamination and because they are difficult to remove, it is suggested that degradation will be the best approach. Mention 3 possible degradation methods you can use and explain 2 of them.

4.
 - a. What are bio-pesticides?
 - b. Discuss the 3 categories of bio-pesticides
 - c. Discuss the benefit and concerns of bio-pesticides

5.
 - a. What's bio-fertilizer?
 - b. Name the 3 types of bio-fertilizers and discuss any two of them
 - c. Discuss seed and soil inoculation

6.
 - a. Discuss a bio-based economy as against a conventional economy
 - b. Explain the why and now of a bio-based economy