

ELIZADE UNIVERSITY, ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

SECOND SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE	CODE:	BIO	412

COURSE TITLE: ENVIRONMENTAL MUTAGENESIS

DURATION: 2 HOURS



HOD's SIGNATURE

NAME:	
MAT. No:	

INSTRUCTIONS Attempt any three questions

Questions

- 1. (a) Explain any five (5) types of chemical mutagens and their mode of action.
 - (b) Classify mutation based on phenotypic effects.
 - (c) What are the characteristics of a patient suffering from Klinefelter syndrome (47XXY).
- 2. (a) i. Explain carcinogenesis
 - ii. Highlight the factors that influence carcinogenesis
 - (b) List and explain the stages of carcinogenesis
- 3. (a) Write a short notes on procedure of Ames test
 - (b) What are the applications of Ames test?
 - (c) Write short note on the following:
 - Aneuploidy
 - Euploidy
 - Base substitution
- 4. (a) Explain Down syndrome and Turner syndrome.
 - (b) Classify mutation based on molecular change
- 5. (a) i. Write on the different types of mutation that can occur in human body system,
 - ii. Illustrate and give examples in (i) above
 - (b) Highlight the different types of therapy used in cancer treatment