



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

**BASIC & APPLIED SCIENCES
BIOLOGICAL SCIENCES
FIRST SEMESTER EXAMINATION
2018/2019 ACADEMIC SESSION**

**COURSE CODE: BTH 307
COURSE TITLE: PLANT TISSUE CULTURE
DURATION: 2 HOURS**

HOD's SIGNATURE

NAME:

MAT. No. :

**INSTRUCTIONS:
Answer any FOUR questions.**

1. a) Define totipotency?
b) Discuss concisely the applications of plant tissue culture.
2. a) Outlined the types of plant tissue culture techniques.
b) Explain the factors that affect the success of plant tissue culture.
3. a) List the four stages involve in plant tissue culture technique.
b) Write comprehensively on the importance of “macro” and “micro” elements in plant development.
4. a) In a tabular form, list four vitamins that are required for plant growth and development.
b) How can tissue culture be used to propagate virus free plants?
5. Write extensively on organogenesis and embryogenesis.
6. a) List five plant hormones you know and outline their action(s) in plants?
b) Outline the procedures for protoplast isolation from plant cells.