



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

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE CODE: BTH 305

COURSE TITLE: PLANT BIOTECHNOLOGY

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:

MAT. No:

**INSTRUCTIONS: Answer four questions
All questions carry equal marks**

1. Describe one strategy used to produce transgenic crops with delayed ripening and longer fruits shelf life.
2. Describe in details 2 important techniques used in introducing foreign DNA into plant cells.
3. (a) What is an explant?
b) How will you induce callus from 3a above (include flow chart where necessary)?
c) What is 'organogenesis'?
d) What are the applications of organogenesis to plant biotechnology?
4. Describe the process of preparing cell suspension. What are the benefits of using aqueous medium over solid medium.
5. In details, discuss the procedure of isolation of protoplasts from the plant cells. What are the applications of protoplast culture?
6. What is micro-propagation? How is it different from vegetative propagation?

End of Questions