

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
DEPARTMENT OF PLANT BIOLOGY
FIRST SEMESTER BTECH. EXAMINATION, 2017/2018 SESSION

COURSE CODE PLB 414
COURSE TITLE: PLANT TRANSFORMATION TECHNOLOGY
COURSE UNIT: 3
TIME ALLOWED: 2 HOURS

INSTRUCTION: *ANSWER ANY FOUR (4) QUESTIONS IN ALL.*

- 1 a. With the aid of a large well labeled diagram, describe the structure of plasmid.
b. Write notes on 'opine concept'.
2. Discuss any four non-vector methods of plant genetic transformation.
3. Discuss in details, the phases in agrobacterial-plant interactions.
4. Use of herbicides in agriculture has increased in recent years but efforts through plant transformation technology would go a long way to reverse this trend. Explain some of such efforts made so far.
5. Explain the main features of relevance that made the plasmid an important tool in gene transfer technology.
6. We live in a distressed world (e.g. Food scarcity, poverty, joblessness, increased diseases, etc). In what ways can plant genetic transformation techniques help to check some of these problems. Explain clearly.