



KENYATTA UNIVERSITY
INSTITUTIONAL BASED PROGRAMME

UNIVERSITY EXAMINATIONS 2008/2009

EXAMINATION FOR THE DEGREE OF MASTER OF EDUCATION

ECT 525: NATURE, AIMS AND METHODS OF TECHING BIOLOGY

DATE: WEDNESDAY 31ST DECEMBER 2009

TIME: 9.00 A.M. – 12.00 NOON

1. Discuss the significance of the change in the Kenyan Secondary school curriculum over the years since the 1960s to teaching and learning strategies in Biology.
2. Biotechnology has posed debate on its suitability in a developing country like Kenya.
 - a) Outline THREE examples of biotechnological advancements in Kenya and explain some of the public fears associated with these achievements.
 - b) Suggest what less-developed nations like Kenya could do to minimize over – dependence on import of foreign technologies.
3. You are Head of Biological Sciences department in a newly stated College. Outline how you would organize the Biology course for the students.
4. Discuss THREE fundamental principles of Biology explaining their role in
 - a) Course design and development.
 - b) Heuristic and Expository approaches to teaching and learning Biology.

5. “The task and central purpose of science education is to awaken in the child, whether or not he will become a professional scientist, sense of joy and excitement and the intellectual power of science”.

Justify this assertion in the light of nature and methods of teaching biology at the secondary school level in Kenya.