

OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE

FACULTY OF EDUCATION

DEPARTMENT OF SPECIAL EDUCATION AND CURRICULUM STUDIES

M.A. Ed/M. Ed/Ph. D Degree Examination

2011/2012 Rain Semester Examination January 2013

Course Code: SEC 614

Course Title: Curriculum in Science Education

Time allowed: 2 hours

Instruction: Answer all

1. "Any system devised by man is indefinitely perfectable. No matter how good the system is at its inception, and despite the excellence of its current products, improvements can be made and its excellence can still be put to further refining"

With reference to the above statements, discuss why laboratory experimentation will always remain central to science teaching/learning in the Nigerian secondary schools.

2. i) Orderly itemise the six objectives of teaching science in Nigeria secondary schools as developed in this course.
ii) As a science teacher, how will you achieve the sixth objectives?
3. The term "model" is frequently encountered in scientific literature. The term "model" is used in science to refer to a device, often abstract and even purely imaginary, for testing ideas and predicting from hypothesis. The word 'model' and 'theory' are sometimes used as if they are synonyms. However, a distinct philosophical difference exists between the two.
- (1) Distinguish between "model" and "theory" only learner will avoid the dangers of confusing the two.
- (b) Distinguish between hypotheses and theories in science.
- (c) In what ways can you use the following to advantage in the science laboratory
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| (i) waste | (ii) borrowing |
| (iii) naming | (iv) mistakes/errors. |