



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

DEPARTMENT OF SCIENCE EDUCATION

COURSE CODE: SED831

COURSE TITLE: CURRICULUM TRENDS IN SCIENCE EDUCATION

CREDIT UNIT: 3

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

1a. What were the six (6) Carroll (1960) model propositions on students' mastery level of the science curriculum and briefly explain the four (4) out of the elements suggested by Carroll (1960) to determine students' rates of learning in science. **10 MARKS**

b. Briefly explain what is meant by conceptual imposition in the context of primary school science curriculum. Suggest three (3) ways by which conceptual imposition could be resolved by the teacher for science to be well related to the pupils' environment in primary schools. **10 MARKS**

c. Briefly explain two (2) out of the propositions suggested by Fafunwa (1982) on how to resolve conceptual imposition in primary schools. **5 MARKS**

2. Justify the inclusion of the Ondo State Primary Science Programme (OSPSP), 1974, in the science curriculum by considering the following salient points:

- i.** Briefly explain three (3) out of the Ondo State Primary Science Programme (OSPSP) panel terms of reference. **6 MARKS**
- ii.** Discuss the panel nine (9) general objectives for science teaching in Nigeria within the context of the National Policy on Education? **9 MARKS**

3a. Some curricula analysts in Science education have come to the conclusion that the Science education syllabi have 25% of Advanced Level topics injected into teaching syllabi of senior secondary school. Justify the statement by examining three (3) out of the framework that science curricula has been built on and four (4) out of the agenda that the implementation of the science curricula is predicated upon **7 MARKS**

b. It is a known fact that gender socialization and stereotype, more than anything else are responsible for women's low interest, achievement and attitude to Science, Technology and Mathematics Education. Explain four (4) out of the ways by which women participation in Science, Technology and Mathematics Education can be further enhanced. **8 MARKS**

4a. Explain the term Schools Council Integrated Science Project (SCISP) **4 MARKS**

b. What do you understand by "Patterns Approach"? **4 MARKS**

c. The NERDC was established by Decree No 53 of 1988 by merging four curriculum development bodies together. Examine seven (7) out of the functions of NERDC as stated under the Decree that established it. **7MARKS**

5a. As it is always said, the only thing that has remain constant is change. All other things have always changed including science content. What were the three (3) out of the reasons advanced by Okeke (1996) as responsible for this? **3MARKS**

b. Discuss the position of the development of Theory and Curriculum Design giving six (6) out of the reasons for change in science content **12MARKS**