



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF EDUCATION
Department of science education
2025_1 EXAMINATION...**

COURSE CODE: SED831

COURSE TITLE: CURRICULUM TRENDS IN SCIENCE EDUCATION

CREDIT UNITS: 3

Instructions: Answer question 1 and any other three questions.

Time Allowed: 3 Hours

1a. What are the CESAC contributions to science teaching in our secondary schools in Nigeria? 5 Marks

1b. Describe the most common misconceptions held by students about science subjects. 10 Marks

1c. Discuss the contributions of STAN to the success of science education in Nigeria. 10 Marks

2a. In a tabular form, briefly discuss how you explain science process skill to your students. 8 Marks

2b. What will you consider as impediment to the successful implementation of science education programmes in Nigeria since independence? 7 Marks

3a. Discuss ways the government and private sectors can re-shape science education in Nigeria

8 Marks

b. What is Kuhn's view of normal science? 3 Marks

c. List the four curriculum development bodies that formed NERDC. 4 Marks

4ai. What challenges does **Global Warming** and **Pollution** pose to development of science education in Nigeria? 5 Marks

4bi. Discuss how the problem of unpreparedness of science teachers can affect the proper implementation of a curriculum. 6 Marks

4bii. Highlight how these challenges can be addressed in order to improve science education outcomes. 4 Marks

5a State the criteria a science teacher will use in identifying and selecting content. 4 Marks

5b. How will the four postulates of Paul Hirst be of useful to you as a science teacher? 6 Marks

5c. Differentiate between scientific language and general language. 5 Marks