



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