



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF EDUCATION
Department of science education
2025_2 EXAMINATIONS

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. How will the four postulates of Paul Hirst be of useful to you as a science teacher? 10 Marks
- b. Describe the most common misconceptions held by students about science subjects. 5 Marks
- c. In a tabular form, briefly discuss how you explain science process skill to your students. 10 Marks
- 2a. What is Kuhn's view of normal science? 2 Marks
- b. Discuss the contributions of STAN to the success of science education in Nigeria. 10 Marks
- c. What are the names of the national bodies in charge of universities and polytechnics? 3 Marks
- 3a. What will you consider as impediment to the successful implementation of science education programmes in Nigeria since independence? 5 marks
- b. Discuss the ways the private sector can re-shape science education in Nigeria. 5 Marks
- c. Write the following in full:
- i. NBDC
 - ii. CESAC
 - iii. WAEC
 - iv. NERDC
 - v. STAN
- 5 Marks
- 4ai. What challenges do **Global Warming** and **Pollution** pose to development of science education in Nigeria? 6 Marks
- a.ii. State four Strategies to Mitigate these Challenges 4 Marks
- b. List and discuss the criteria you as a science teacher will use in identifying and selecting subject content. 5Marks
- 5a. What are the CESAC contributions to science teaching in our secondary schools in Nigeria? 5 Marks
- b. List the four curriculum development bodies that formed NERDC. 4 Marks
- c. Briefly discuss how the problem of unpreparedness of science teachers can affect the proper implementation of a curriculum. 6 Marks