



NATIONAL OPEN UNIVERSITY OF
91 Cadastral zone, NnamdiAzikiwe
FACULTY OF EDUCATION
Department of science education
2025_2 EXAMINATIONS

COURSE CODE: EDU 752
COURSE TITLE: CHEMISTRY METHODS
CREDIT UNIT: 2

INSTRUCTION: Answer question 1 and any 2. TIME ALLOWED: 2 HOURS

QUESTION 1

- Describe briefly five(5) traits that characterize scientific attitude (10marks)
- Discuss six (6) criteria for evaluating the quality of a science textbook. (12marks)
- Identify four (4) languages that tend to conflict in the learning of Chemistry. (4marks)
- Mention any four (4) values of science that must be taught. (4marks)

QUESTION 2

- The curricula of science subjects, including Chemistry in Nigeria focus on inquiry methods of teaching. Mention any six (6) guidelines needed for inquiry methods. (9marks)
- State six (6) rationale for improvisation in teaching. (6marks)
- Identify any five teacher-based factors that influence the quality of learning. (5marks)

QUESTION 3

- Discuss five (5) importance of science textbooks in teacher lesson preparation and student skill development. (10marks)
- Mention eight (8) major components of a good lesson plan. (8marks)
- With an example, define science process skills. (2marks)

QUESTION 4

- Discuss the concept of advance organizers in Ausubel's theory of meaningful verbal learning. (9marks)
- Enumerate five (5) types of computer-assisted instruction. (5marks)
- State three (3) different interaction patterns in the science classroom. (6marks)