



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

FEBRUARY/MARCH EXAMINATION 2018

COURSE CODE: EDU752

COURSE TITLE: CHEMISTRY METHODS

COURSE UNIT: 2 Units

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION **ONE** AND ANY OTHER **TWO** QUESTIONS.

1. (a) (i) What problem plague an African child from effective learning of science? (3 marks)
(ii) Explain THREE solutions to bail out an African child from this problem. (6 marks)
(b) Discuss any SIX teachers' techniques for proper chemistry classroom management. (12 marks)
(c) Write short notes on each of the following: (i) Hypothesis (ii) Laws (iii) Theories (9 marks)
2. (a) Explain the principles of each of these methods for teaching chemistry
(i) Inquiry (ii) Demonstration (iii) Team teaching (14 marks)
(b) Give TWO advantages of each of these methods. (6 marks)
3. (a) Describe FIVE general aims of science teaching in Nigerian secondary schools. (10 marks)
(b) Explain any FIVE teacher-based factors that could influence the quality of learning chemistry (10 marks)
4. (a) List and explain Jean Piaget theory of cognitive development (12 marks)
(b) Enumerate FOUR of its implications for science teaching and learning. (8 marks)
5. (a) Mention and discuss any FIVE major facilities that should available in a chemistry laboratory (15 marks)
(b) Enumerate FIVE main components of a comprehensive lesson plan (5 marks)