



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

DEPARTMENT OF SCIENCE EDUCATION

EXAMINATION: 2021_1
COURSE CODE: EDU752
COURSE TITLE: CHEMISTRY METHODS
CREDIT UNIT: 2
TIME ALLOWED: 2HOURS
INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE:

- In a situation where money is not available to buy chemicals and equipment needed to conduct practical demonstrations in the laboratory, an effective Chemistry teacher has an alternative approach to attain his/her goal. **Mention** and **explain** the concept involved.(10mks)
- Outline** and **Discuss** five (5) merits derivable from the acceptance of the concept mentioned in 1i above, as a means of attaining the national goal of science education.(15mks)
- Provide any two (2) justifications for the concept.(5mks)

QUESTION TWO:

- With five (5) illustrated points, discuss the statement that a Chemistry textbook is an indispensable resource material for effective teaching and learning of chemistry.(15mks)
- As a prospective Chemistry teacher, discuss any five (5) factors that influence learners' achievement in class.(5mks)

QUESTION THREE:

- Inter-personal Communication in science teaching is a barrier to effective learning. Discuss any four (4) of such barriers. (10mks)
- How can each of the identified barriers be surmounted?(10mks)

QUESTION FOUR:

- To Gagne, learning a concept/skill, C is dependent on an understanding of sub-concept/skills a and b, which in turn are dependent on lower level concepts/skills c, d, e and f. Illustrate this relationship with a pyramidal sketch.(10mks)

- b. Use specific concept/skill and sub-concepts/skills in senior secondary chemistry to explain the sketch in 4a. **(10mks)**