



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF EDUCATION
JANUARY/FEBRUARY 2013 EXAMINATION

Course Code: EDU 754 **Credit:** 2
Course Title: Integrated Science Methods
Time Allowed: 2 Hours
Instructions: Answer question number one (1) and any other three (2) questions.

Use the answer booklet provided.

- 1a. i. State Bajah's (1983) definition of Integrated Science.
ii. Explain why Integrated Science is regarded as a unique subject.
iii. List five (5) factors you would consider in selection of teaching method for use in teaching Integrated Science.
- b. Discuss five (5) implications of Ausubel's theory of learning for science teaching.
- c. Identified and discuss the four classes of objective test. (30 marks)
- 2a. Discuss five (5) major criticisms of the General Science as a Subject that resulted to the change to Integrated Science.
- b. Briefly discuss the Bendel State Primary Science Project by pointing out the financier, the date the project was initiated, the focus of the project, the curriculum material produced for execution of the project and the emphasis of the project. (20 marks)
- 3a. i. Identify and discuss the two (2) forms of discovery process according to J. Brunner's theory of learning.
ii. What are the implications of this theory of learning for Science teaching and curriculum development?
- b. i. Briefly, explain the "Demonstration method" of teaching Integrated Science.
ii. Identify four (4) advantages and four (4) disadvantages of using this method in teaching of Integrated Science. (20 marks)
- 4a. Identify and explain five (5) general features of a modern laboratory design.
- b. i. Identify and briefly discuss the two (2) important service points in an Integrated Science Classroom.

ii Teacher's demonstration table is very important in the teaching of Integrated Science. Where should this table be located and why? (20 marks)

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