



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF EDUCATION
MAY/JUNE 2012 EXAMINATION**

EDU 654 Integrated Science Methods (2 CR)
Time Allowed: 2 Hours

Instructions: Answer questions number one (1) and any other two (2) questions.

1a(i). What do you understand by a Module?

(ii). State and justify the reasons for teaching Integrated Science in Nigerian Schools.

(10 marks)

b(i). Describe a marking scheme.

(ii). Identify five situations in which you may use essay questions to assess your students.

(10 marks)

c(i). Describe the concept of subsumer with Ausubel's definition as a guide.

(ii). What is advance organizer?

(iii). Explain the relationship between subsumers and advance organizers in classroom Instruction.

(iv). Identify the two process which could lead to meaningful learning according to Ausubel.

(10 marks)

2a. Briefly discuss the Nigerian Integrated Science Project (NISP) by pointing out:

- i. Date of development of the project;
- ii. The skills the project expects students to acquire in Integrated Science;
- iii. The approach used in the project;
- iv. The focus of the philosophy of NISP; and
- v. The financiers of the Project.

(10 marks)

b. Discuss five roles you are expected to perform as a Science teacher in the laboratory apart from teaching Integrated Science or any other Science subject.
(10 marks)

3a. Identify and explain five (5) factors you would consider in the selection of teaching methods for use in teaching Integrated Science.
(10 marks)

b. Identify and discuss causes of lack of uniformity in the teaching of Science in the past and the effects of these in the teaching of Science in Schools, before the adoption of Integrated Science.
(10 marks)

4 a. State and explain five roles of Integrated Science teachers in the achievement of objectives for teaching Integrated Science.

b(i). Describe a good Integrated Science Scheme of work.

(ii). What are the factors you must consider to enable you draw a dynamic scheme of work from Integrated teaching syllabus?