



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
FACULTY OF EDUCATION**

**JANUARY 2018, SEMESTER EXAMINATION**

**COURSE CODE: SED832**

**COURSE TITLE:** Curriculum Development in Science Education

Instructions: Answer question one, and any other three questions.

Time Allowed: 2 Hours

- 1a. If mandated by your school authority to develop a new course in integrated science, using the Ehindersos' model, illustrate how you will set out to actualise the project. (15 Marks)
- b. Write briefly on the salient features of Wheeler's model for developing curriculum, how does it compare with the Wheelers model? (10 Marks)
- 2a. What is philosophy, as it relates to science? (5 Marks)
- b. Empiricism and Rationalism are two known philosophical theories in science education, how would you dichotomise between these? (10 marks)
- 3a. Robert Gagne and Jean Piaget are renown educational psychologists, how has their scholarly works impacted on the teaching of science in schools? (10 Marks)
- b. What are the major psychological assertions about learning as promulgated by David Ausubel? (5 marks)
- 4a. Write a short note on educational objectives. (5 Marks)
- b. State five functions of educational objectives as it relates to the teaching of science subjects in schools. (10 marks)
- 5a. What do you understand as the integration of curriculum in science? (5Marks)
- b. Write a brief note on any four factors you will use to justify integration in science curriculum (10Marks)
- 6a. In 2017, the Kaduna State government laid off 23,000 teachers from her educational system, discuss the effect of the presence of unqualified teachers to the teaching and learning of integrated science in Nigerian schools. (7 Marks)
- b. Give a historical account the development of science education in Nigeria. (8 Marks)