



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

**JANUARY 2018, SEMESTER EXAMINATION**

**COURSE CODE: SED831:**

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

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

**Time Allowed: 2 Hours**

- 1a. It was established that four (4) major characteristic features in every form of knowledge served as the dividing line between each. Write a short note on any three (3) of these attributes as identified by Hirst. (15 Marks).
- b. What is the implication of Hirsts' tenet about the nature of science on the teaching of science in the classroom? (10 Marks)
- 2a. How is science education evolving in the 21<sup>st</sup> century Nigerian educational system? (10 Marks)
- b. Discuss some of the current happenings in the world that is of importance to science education in Nigeria. (5 Marks)
- 3a. Discuss how Popper distinguished between science and other forms of knowledge. (5 Marks)
- b. Write brief notes on the views of the following philosophers on how science progress:
  - i. Lakatos (5 Marks)
  - ii. Thomas Kuhn (5 Marks)
- 4a. Give a historical narrative of the development of science education in Nigeria in the pre and post independence era. (10 Marks)
- b. Since the attainment of independence, what has the federal government of Nigeria done towards the development of science education? (5 Marks)
- 5a. What is culture? (5 Marks)
- b. Justify the assertion by some scholars that culture affects learning of science in schools. (5 Marks)
- c. Briefly explain the roles played by science in shaping our cultural beliefs in Nigeria. (5 Marks)
- 6.a What is scientific attitude? (5 Marks)
- b. Discuss the implications of the goals of science education for teaching and learning. (10 Marks)