



NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF EDUCATION
MARCH/APRIL 2014 EXAMINATION

COURSE CODE: SED811
COURSE TITLE: FOUNDATION OF SCIENCE EDUCATION
TIME ALLOWED: 2½ hrs.
INSTRUCTION : Answer Question ONE and Any Other THREE Questions.

1. Write notes on the following:
 - (a). the basic tenets of John Locke's mechanical worldview. (6 marks)
 - (b). Explain two reasons that contributed to the increased scientific activities of the twentieth century. (6 marks)
 - (c). State two reasons for the importance of Newton's principle of principia. (7 marks)
 - (d). Enumerate the second generation universities and when were they established in Nigeria. (6 marks)
2. Discuss the importance of scientific inquiry in science teaching with the aid of relevant examples. (15 marks)
3.
 - (a) What are scientific models? (5 marks)
 - (b) Explain how models are used to improve the understanding of scientific knowledge. (10 marks)
4.
 - (a) Give an explanatory description of a paradigm in science. (5 marks)
 - (b). Use Kuhn's paradigm to discuss his views on how science develops. (5 marks)
 - (c). Describe one of the paradigm changes that revolutionized science in the last century. (5 marks)

5. Describe the major educational changes that took place immediately after independence in Nigeria pointing out the areas it affected science education.
(15 marks)