

SCHOOL OF EDUCATION MAY/JUNE 2013 EXAMINATION

COURSE CODE: SED 811

COURSE TITLE: FOUNDATIONS OF SCIENCE EDUCATION

TIME ALLOWED: 2 ½ HOURS

INSTRUCTION : ANSWER QUESTION **ONE** AND ANY OTHER **THREE** QUESTIONS

- 1. (a) Discuss the attributes of science by which it can be defined.
- (b) State the major differences between science and science education.
 - (c) What is Penick's (1993) view about scientific literacy?
 - (d) Briefly explain Thomas Kohn's concept of scientific paradigm.
- 2. Trace the evolution of science education in Nigeria with specific reference to the role played by the missionaries, government efforts and community participation.
- 3 With the aid of specific examples, discuss "models" in science.
 - (b) Give explanatory definitions of the four branches of philosophy.
- 4. State and explain any five characteristics of:
 - (a) Traits of creative persons.
 - (b) Give two reasons why Ernst Von Glassersfield is called the father of radical constructivism.
- 5 Describe Joseph Louis Prohist's law of definite proportion.
- (b) What are the evidences that favoured the possibility of evolution?
 - (c) Explain the meaning of neo-Darwinism.