



NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

DEPARTMENT OF SCIENCE EDUCATION.

EXAMINATION: 2021_1

COURSE CODE: SED832

COURSE TITLE: CURRICULUM DEVELOPMENT IN SCIENCE EDUCATION

CREDIT UNIT: 3

TIME ALLOWED: 3 HOURS

**INSTRUCTION: ANSWER FOUR QUESTIONS FROM FIVE, ALL QUESTIONS
CARRY EQUAL MARKS**

TWO Marks will be awarded for orderly presentation of answers

1 a. Discuss the following as it relates to science education:

i. Epistemological issues (**6 MARKS**)

ii. Cultural issues (**8MARKS**)

b. Examine three (3) salient features that made Philosophy of science an important concept in science education. (**3MARKS**)

2a. Identify and critically assess the four (4) stages of Jean Piaget scholarly works and two (2) impacts of each of these stages to the teaching of science in schools **12MARKS**

b. Examine five (5) features identified on gender issues in science in the context of curriculum development in science education (**5MARKS**)

3 a. Briefly examine five (5) impacts of Jerome Bruner's Model of Learning by Discovery on the teaching of science in schools. **10MARKS**

b. Highlight seven (7) functions of educational objectives as they relate to the teaching of science subjects in schools. (**7 MARKS**)

4a. Discuss chronologically any six (6) historical accounts of the development of science education in Nigeria. (**14 MARKS**)

b. Mention three (3) characteristic features of Educational Objectives as found in science education. **3MARKS**

5a. Indicate five (5) out of the stages listed by Balogun (1983) Project management in curriculum development. **5MARKS**

b. Discuss the six (6) chronological illustrations from the list out of the historical foundations of science curriculum from 5th century to the present. **12MARKS**