



NATIONAL OPEN UNIVERISTY OF NIGERIA

Plot 91 Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja

DEPARTMENT OF SCIENCE EDUCATION

EXAMINATION: 2021_1

COURSE CODE: SED811

COURSE TITLE: FOUNDATIONS OF SCIENCE EDUCATION

CREDIT UNIT: 3

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER FOUR QUESTIONS OUT OF FIVE, ALL QUESTIONS CARRY EQUAL MARKS

TWO Marks will be awarded for orderly presentation of answers

1a. Francis Bacon (1561 — 1626) was a great scientist, identify the area of science he worked on and examine critically seven (7) of his contributions to emergence of science **15MARKS**

b. The early renaissance was a period of change in arts than in science. Mention two (2) names of personality involve in the early renaissance era **2MARKS**

2a. Critically assess six (6) out of Copernicus (1473 — 1543) contributions to emergence of science **12MARKS**

b. Enumerate three (3) major bodies found in Nigeria that were involved in curriculum innovation projects within the period of 1970 to 1979. **3MARKS**

c. Mention two (2) out of the investigations of Galileo Galilei (1564 — 1642) **2MARKS**

3a. As a lecturer, suggest by discussing in details seven (7) ways of choosing a project topic in science education. **12MARKS**

b. Explain two (2) fundamental distinctions of Empiricism that claims science to be more than what we can experience. **4MARKS**

c. What is the Western worldview space of the subcategory: physical? **1MARK?**

4a. What is the world-view of people referred to, according to Maquet (1954)? **1MARK**

b. Identify and elaborate eight (8) reasons that gave rise to the increased scientific activities of the twentieth century. **16MARKS**

5a. Outline any four (4) merits of humanizing science teaching in your local community and discuss the conditions to be fulfilled. **12MARKS**

b. According to Cobern (1993), explain briefly the African anthropology view of the following categorization:

- i. The causality that must be developed with the sub-category including the role and place of person or victim to which is developed. **2MARKS**
- ii. The nature of time with sub- category including what the life ensures. **2MARKS**
- iii. What is space mode in physical realm. **1MARK**