



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja.
FACULTY OF EDUCATION
2020_1 Semester

COURSE CODE: SED831
COURSE TITLE: CURRICULUM TRENDS IN SCIENCE EDUCATION
CREDIT UNIT: 3
TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE

1a. Paul Hirst in attempting to distinguish between the various forms of knowledge postulated four distinguishing features, briefly explain the four (4) forms of knowledge identified by Hirst. **4 MARKS**

b. In a tabular form, briefly discuss four (4) means of relating the nature of science to science teaching. **12 MARKS**

c. What are the two (2) views of scientific knowledge by Popper (1985) that distinguishes science from other forms of knowledge? **3 MARKS**

d. Briefly explain three (3) ways by which science progresses. **6 MARKS**

2a. What is meant by the concept scientific attitude briefly examine five (5) attributes involved? **7 MARKS**

b. In the non-western environment, science is seen as second culture. Examine four factors that influence science learning in non-western cultures, **8 MARKS**

3a. Explain the term culture? **5 MARKS**

b. Discuss the Five (5) implications of the goals of science education for teaching and learning. **10 MARKS**

4. Explain the tenets of University of Nigeria Primary Science Pilot Scheme of 1963. **15 MARKS**

5. Explain five (5) innovations to Science Education brought about by the New Directions/New Dimensions in the 21st century Nigerian educational system, **15 MARKS**