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NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja.

DEPARTMENT OF SCIENCE EDUCATION 2021 2 EXAMINATION.

COURSE CODE: EDU754

COURSE TITLE: INTEGRATED SCIENCE METHODS

CREDIT UNIT: 2

TIME ALLOWED: 2HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER TWO

- 1a. State the philosophy and explain any four (4) objectives of integrated science as fashioned out by the Federal Government of Nigeria. (12Marks)
- bi. Integrated science was introduced in Junior secondary schools of many countries to solve some educational problems. Mention some advantages of having Integrated Science in science education curriculum. (3Marks)
- ii. What were the problems faced in the past in schools for the inclusion of Integrated Science? (3Marks)
- ci. What is the full meaning of the acronym STEM? (2Marks)
- ii. Examine the relationship between Integrated Science and STEM (4Marks)
- d. Describe the steps you would take as a science teacher to teach sinking and floating using inquiry method (6Marks)
- 2ai. Describe teacher-made test (5Marks)
- ii. Explain five characteristics of the teacher-made test. (5Marks)
- bi. Explain Gagne's theory of learning, (5Marks)
- ii. Use Gagne's theory of learning to explain briefly the importance of pre-test in a science classroom. (5Marks)
- 3a. What is a test? (3Marks)
- b. List and explain functions of test According to Findley (1963) (5Marks)
- c. Explain the project method under the following headings:
- i. Definition (4Marks)
- ii. Advantages (4Marks)
- iii. Disadvantages (4Marks)
- 4ai. Who was Jean Piaget? (2Marks)

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- ii. Outline his biography. (2Marks)
- iii. List the four (4) stages of intellectual development in children. (4Marks)
- b. Explain the discovery method of teaching under the following headings:
- i. Advantages. (3Marks)
- ii. Disadvantages (3Marks)
- ci. As a professional teacher, how would you differentiate methodology from teaching? (2Marks)
- ii. Enumerate the factors that made you a qualified teacher. (4Marks)