



NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi- Abuja

FACULTY OF EDUCATION

DEPARTMENT OF SCIENCE EDUCATION

2021_2 EXAMINATION

COURSE CODE: EDU750

COURSE TITLE: BIOLOGY METHODS

CREDIT UNIT: 2

TIME ALLOWED: 2HOURS

INSTRUCTION: Answer Question One and Any Other Two

1. Justify the inclusion of the following visual materials as aid in Senior Secondary Schools' Biology class given example where necessary

- (i) Chalkboard (Black/white board) 5 MARKS
- (ii) Charts 5 MARKS
- (iii) Models 5 MARKS
- (iv) Soft Board/Display/Bulletin Boards 5 MARKS
- (v) Flannel Boards or Felt Boards 5 MARKS
- (vi) Specimens 5 MARKS

2a. For Discussion method to be effectively use in disseminating content knowledge to Senior secondary schools Biology students, examine the seven (7) criteria that must be met. 14 MARKS

b. Biology textbooks abound in the market shelves but not all of them are effective in meeting the teaching and learning needs of teachers and students. What are the two (2) peculiar questions to ask yourself based on the following guidelines while selecting biology textbooks:

(i) Scope or Content 2 MARKS

(ii) Treatment 2 Marks

(iii) Mechanical Features 2 Marks

3a. Lecture method has been used in various ways by teachers what are the six (6) peculiar features of this method of teaching in a classroom situation. **6 MARKS**

b. As a Senior Secondary school teacher, what are the four (4) main suggestions you can give to teachers that intend to use Lecture Method in their classroom **8MARKS**

c. One of the demerits of lecture method is that it is a teacher cantered, what are the other six (6) other attributes that makes Lecture Method not be useful for the teaching content material in BIOLOGY EDUCATION. **6 MARKS**

4a. The values of teaching materials cannot be over emphasised in the teaching and learning of Biology. Briefly outline the ten (10) major importance of these materials **10 Marks**

b. Demonstration method has been found to be of immense importance in teaching difficult concepts in Biology, what are the five (5) effective use of Demonstration method in Nigeria's senior secondary schools. **10 Marks**