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NATIONAL OPEN UNIVERISTY OF NIGERIA

Plot 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
DEPARTMENT OF SCIENCE EDUCATION...

EXAMINATION: 2021_1

COURSE CODE: EDU750

COURSE TITLE: BIOLOGY METHODS

CREDIT UNIT: 2

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER THREE QUESTIONS FROM FOUR, ALL QUESTIONS CARRY EQUAL MARKS.

ONE Mark will be awarded for orderly presentation of answers.

- 1a. Explain the effects of any four (4) of the listed hazards when performing experiment in the Biology laboratory:
- i. Chemical substance that explodes violently when it is exposed to a relatively small amount of energy**5MARKS**
- ii. Injury on skin 5MARKS
- iii. Open flames **5MARKS**
- iv. Irritation to body tissue. **5MARKS**
- v. Equipment using electricity in laboratory **5MARKS**
- b. Identify three (3) ways to prevent burns hazards in laboratory 3MARKS
- 2a. Explain the salient features that serve as basis for the preparation of your lesson plan using the following headings:
- (i) How do you state the objectives of the lesson **5MARKS**
- (ii) How to make class interesting to your students in the Classroom5MARKS
- (iii) Resources in close environment needed for the lesson. 7MARKS
- (iv) How to choose of appropriate teaching strategies that will make teaching/learning clearer in relation to objectives. **6MARKS**
- 3ai. Lesson plan has been defined by various authors and scientists, Give four (4) important definitions of a lesson plan. **4MARKS**
- b. Discuss six (6) essential features you will consider as very important when writing a lesson plan. **12MARKS**

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- c. In Biology education, what are the seven (7) rationales science teachers should consider for preparing and planning lesson? **7MARKS**
- 4a. There is no curriculum without the scheme of work. Discuss six (6) guidelines to help the Biology teacher in drawing the scheme of work for Biology class. **12MARKS**
- b. The plan of instruction in a programme of study is an essential process. If you are to plan a programme, identify five (5) and discuss three (3) components of the total plan of instruction that should be found in your proposed programme **11MARKS**.