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NATIONAL OPEN UNIVERSITY OF NIGERIA

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

FACULTY OF EDUCATION

2020_1 Semester

COURSE CODE: SED313

COURSE TITLE: IMPROVISATION IN INTEGRATED SCIENCE

CREDIT UNITS: 2

TIME: 2 Hours

INSTRUCTIONS: Answer question No. 1 and any other two

1a Science teachers are always encouraged to improvise where instructional materials are not sufficient. Give 5 reasons for the needs of improvisation in integrated science. 10 marks

1b Construction form of improvisation requires innovation and creativity. Find a suitable substitute for every piece of science equipment in the construction of aquarium in the school **10 marks**

1c Mention two areas where you can source for instructional materials for science teaching. 5 marks

1d Briefly explain the function of an improvised lungs? 5 Marks

2a. Instructional resources are very important in science classrooms. What are the resources for science teaching? Mention two types and the locations of such science resources
 2b. Mention five characteristics of images formed by plane mirror
 10 Marks

3a What do you understand by improvable experiments 5mks

b. How do you locate an image of a pin on the plain mirror? Briefly explain 15mks

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4a. What kind of local materials could you extract lactic and citric acids from? 5 marks

4b. Compare and contrast the sensitivities of the indicators produced locally with the conventional indicators.

15 marks