



NATIONAL OPEN UNIVERSITY OF NIGERIA

91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja

FACULTY OF EDUCATION

SEMESTER EXAMINATION 2017_2

COURSE CODE: SED 313

CODE TITLE: IMPROVISATION IN INTEGRATED SCIENCE

CREDIT UNIT: 2

Time: 2 hours

INSTRUCTION: ANSWER QUESTION ONE AND TWO OTHER QUESTIONS.

- 1a. Define improvisation
 - b. Explain the principles of improvisation
 - c. Discuss the philosophy of improvisation
 - d. Give five needs for improvisation in integrated science
2. Explain the Principle of simple electric motor and describe how to construct a simple electric motor using local materials around. (Diagram is essential)
- 3a. Identify local materials required for the construction of thermometer
- b. Explain the procedure for constructing thermometer using local materials
- 4a Construct a model of a lung using local resources
- b. Explain how the lung works
5. Suppose you want to teach a lesson on the fish and you do not have an aquarium in your school and there are no nearby stream then you need to improvise aquarium.
- a. List the materials required for a construction of improvised aquarium
 - b. Explain the procedure for the construction of improvised aquarium
 - c. Identify local materials that can be used to improvise rainuage