

EPE 305: SCIENCE EDUCATION 1

UNIVERSITY EXAMINATIONS

2017/2018 ACADEMIC YEAR, 2017

INSTRUCTIONS

Answer Question **ONE** and any other **TWO** question of your choice from the remaining.

QUESTION 1

- a. Define the following terms as used in the teaching and learning of science in Early Childhood Development and Education Centers and primary schools.
 - i. Scientific method (2 Marks)
 - ii. Process skills (2 Marks)
- b. Outline six specific objectives of teaching science in Early Childhood Development and Education Centers (6 Marks)
- c. Describe any five science skills that children Early Childhood Development and Education Centers and primary schools may develop. during a science lesson (10 Marks)
- d. Explain the philosophy of teaching science and technology to children (10 marks)

QUESTION 2

- a. Discuss the contributions of the famous educationist Brunner to the teaching of science in Early Childhood Development and Education Centers and primary schools.(10 Marks)
- b. Describe five ways in which Early Childhood and primary schoolteacher can acquire science teaching and learning resources. (10 Marks)

QUESTION 3

- ✓ a. Explain how an early childhood and primary school would use scientific method / scientific process to find out why potted plants growing in the classroom turn yellow. (10 Marks)
- b. Describe the steps involved in carrying out scientific process of solving problems. (10 Marks)

QUESTION 4

a. Nature walk method is key to the teaching of science in early childhood education. Explain four activities that a teacher can involve ECDE children during Nature walk.

(10 Marks)

b. Explain the philosophy of teaching science in Early Childhood Development and Education Centers and primary schools.

(10 Marks)

QUESTION 5

a. Explain five ways in which children in an early childhood and primary school can record information during science lesson.

(10 Marks)

b. Participation of children during science activities is an integral part of teaching science in Early Childhood Development and Education Centers and primary schools. Explain why this is so.

(10 Marks)