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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION (EARLY CHILDHOOD EDUCATION)

ECDE 337: SCIENCE AND ENVIRONMENTAL EDUCATION FOR ECDE

STREAMS: B.ED (ECDE)

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 08/04/2020 2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer question ONE and any other TWO questions
- 1. (a) Define the following:

(3 marks)

- (i) Science
- (ii) Philosophy
- (iii) Philosophy of science
- (b) Citing specific examples, briefly discuss the relationship between philosophical schools of thought as espoused by early childhood educators and the teaching and learning of science.

(9 marks)

- (c) Explain five reasons why science education is important to children at the basic education subsector including ECDE level. (10 marks)
- (d) Discuss the relationship between sensory experiences and early childhood education. (8 marks)
- 2. Describe ten areas of success in indigenous African Science and technology and illustrate their relevance to the teaching of science to young children. (20 marks)

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- 3. Nature plays a significant role in developing scientific skills in young children. Discuss the relevance of this statement to the ECDE science teacher. (20 marks)
- 4. Piaget divided the human learning cycle into 4 stages.
 - (a) Describe each of the four stages of human learning. (12 marks)
- (b) Isolate the stage of interest to the ECDE teacher and discuss strategies that can be best used to teach science education. (8

marks)