



UNIVERSITY EXAMINATIONS 2012/2013 ACADEMIC YEAR

INSTITUTIONAL BASED PROGRAMMES

**2ND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION IN EARLY CHILDHOOD EDUCATION**

**COURSE CODE/ TITLE: ECE 206: SCIENCE AND MATHS
ACTIVITIES IN ECE**

END OF SEMESTER II

DURATION: 3 HRS

DAY/TIME: TUESDAY 12.00PM – 3.00PM

DATE: 20.08.2013-NL3

INSTRUCTIONS:

Answer question One and any other Three questions

Question One

- a) Justify why young children are indeed 'Young Scientist'. **(5marks)**
- b) Highlight and illustrate three types of counting errors that Pre-School children often make. **(6marks)**
- c) Illustrate how the teacher would provide opportunities for pupils to encounter incidental Science experiences. **(5marks)**
- d) Explain the meaning of mathematics in Early Childhood Education (ECE) **(5marks)**
- e) Outline the components of Science in Early Childhood Education. **(4marks)**

Question Two

Discuss the factors a teacher would consider in choosing and developing appropriate Audio-Visual aids for children in Science and Mathematics activities. **(15marks)**

Question Three

Plan the activities that you would carry out using the resources from the School environment to teach children on the theme 'weather'. **(15marks)**

Question Four

- a.) State the goals and objectives of teaching mathematics in Early Childhood Education. **(10marks)**
- b.) Explain and illustrate the meaning of 'Pre-number' stage. **(5marks)**

Question Five

- a.) Apply Jean Piaget's theory to the teaching of Science and Mathematics in Early Childhood Education. **(10marks)**
- b.) Outline the characteristics of appropriate Science and Mathematics activities in Early Childhood Education. **(5marks)**