



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR DIPLOMA IN EARLY CHILDHOOD STUDIES

ECE 025: SCIENCE AND MATHEMATICS FOR EARLY CHILDHOOD EDUCATION

DATE: Friday 30th March, 2012

TIME: 11.00 a.m. – 1.00 p.m.

SECTION A – (30 MARKS)

Answer ALL the questions in this Section.

1. Describe three activities you use to teach volume to preschoolers. [6 marks]
2. Describe three activities you would use to teach preschool children the characteristics of leaves. [6 marks]
3. Describe three characteristics of plants. [6 marks]
4. Distinguish science from scientific inquiry. [6 marks]
5. Explain with examples, the meaning of diagnostic assessment in science inquiry. [6 marks]

SECTION B – (40 MARKS) *Answer any TWO questions in this Section.*

6. What are simple machines? [3 marks]
Discuss with examples, activities preschool children can do to understand how simple machines work. [17 marks]
7. Discuss with examples, how children learn the meaning of conservation of quantities. [10 marks]
What is the meaning of number value? Give two activities for teaching number value. [10 marks]
8. How would you help preschool children differentiate between volume and area? [6 marks]
Discuss the activities you would perform with children to understand these concepts. [14 marks]
9. What is pressure? [3 marks]
Describe four activities preschool children can carry out in class to understand how pressure works. [12 marks]
How will you help children differentiate pressure from force? [5 marks]

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