



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2014/2015

DIGITAL SCHOOL OF VIRTUAL AND OPEN LEARNING
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF EDUCATION

ECE 206: SCIENCE AND MATHEMATICS ACTIVITIES

DATE: Tuesday, 23rd December 2014

TIME: 2.00 p.m. – 4.00 p.m.

INSTRUCTIONS:

Section A (30%). Answer ALL the Questions

1. Explain clearly the essence and meaning of the concept ‘science’. (6 marks)
2. List five characteristics of science activities appropriate for pre-school children. (6 marks)
3. Outline the objectives of teaching science to ECE children. (6 marks)
4. Explain the contribution of science activities in the cognitive development of children. (6 marks)
5. Explain giving examples the relationship between the concepts “exploration and Discovery” in science. (6 marks)

Section B (40%). Attempt any TWO questions ONLY

6. Identify five theme appropriate for young children each in
 - a) Biological science
 - b) Physical science(20 marks)
7. Explain how any five characteristics of young children that could promote the acquisition of desirable skills and concepts. (20 marks)
8. You intend to involve young children in science activities in your centre. Highlight on five considerations you would take into account and why. (20 marks)
9. You want to teach children (3–4 year olds) the concept ‘Number’. Citing materials required discuss the various pre-number activities you will have to involve learners in before understanding the concept. (20 marks)