



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF EDUCATION (EARLY CHILDHOOD STUDIES)

**ECE 209: INTRODUCTION TO STATISTICS, TESTS, MEASUREMENT
AND EVALUATION**

DATE: Friday, 30th March, 2012

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS:

Answer **ALL** questions in Section A and any **TWO** in Section B.

Section A:

Answer **ALL** questions in this Section (30 marks)

1. A student obtained 65 marks in Maths and 90 marks in a History test. The mean scores were 50 and 70 in Maths and Science respectively and the standard deviations were 3 for Maths and 5 for History. In what subject did the pupil score higher? Explain. (6 marks)
2. State and describe three factors that are likely to influence the validity of a classroom test. (6 marks)
3. Calculate the median of the following score distribution.
3, 4, 5, 6, 7, 7, 7, 7, 8, 9, 10 (6 marks)
4. Using a relevant example, define each of the following terms as they are used in statistics:

- a) Estimation
 - b) Variable
 - c) Assessment
- (6 marks)
5. a) State and briefly describe five characteristics of a good instructional objective for young children. (4 marks)
- b) Write an appropriate instructional objective for any activity area in Early Childhood.

Section B:

Answer any **TWO** questions in this Section. (40 marks)

6. Reliability and validity are very important test characteristics. Suppose you have been called upon to develop and administer a test for 4 – to – 5 year olds. Explain the measures you would take to ensure that the testing is valid and reliable.

(20 marks)

7. The following is data on the scores of a group of children on a standard intelligence test and a measure of their performance on a creativity task.

Child	IQ Score	Task Performance
1	100	96
2	110	75
3	95	93
4	105	90
5	120	85
6	125	80
7	118	84
8	130	78
9	115	86
10	123	89

- a) Calculate the Spearman Rho's Correlation Coefficient for the relationship between the IQ and creativity. (15 marks)

- b) Comment on the relationship. (15 marks)
8. Children in a standard three class did a C.R.E. test. The mean score was 48 the standard deviation was 5. there were 100 children in the class.
- a) Assuming a normal distribution:
- i) How many children scored between 43 and 53? (4 marks)
 - ii) How many scored above 43? (4 marks)
 - iii) How many scored below 45? (4 marks)
 - iv) How many scored between 45 and 56? (4 marks)
- b) Suppose that 10% of the weak children are to be selected using these scores for remedial teaching, what is the minimum score a pupil should obtain to be exempted from the remedial teaching program? (4 marks)
9. Discuss the importance of evaluation in an Early Childhood classroom, citing relevant examples. (20 marks)