

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF EDUCATION AND SOCIAL SCIENCES UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF EARLY CHILDHOOD DEVELOPMENT EDUCATION 2^{ND} YEAR 2^{ND} SEMESTER 2013/2014 ACADEMIC YEAR

CENTRE: KISUMU SCHOOL BASED

COURSE CODE: EEC 3221

COURSE TITLE: MATHEMATICS ACTIVITIES

EXAM VENUE: STREAM: BED (Early Childhood)

DATE: 16/12/13 EXAM SESSION: 9.00 – 11.00 AM

TIME: 2 HOURS

Instructions:

- 1. Answer question 1 (compulsory) and ANY other 2 questions.
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

1(a) Defin	ne the following terms as used in mathematics activities	
(i) (ii) (iii)	Symbolic knowledge Enactive knowledge Iconic knowledge	(2 marks) (2 marks) (2 marks)
(b) Define the term classification as used in mathematics activities		(2 marks)
(c) Explain the three groups that can be carried out during classification		(8 marks)
(d) Explai	n how parents can assist their children develop positive attitudes	
towards mathematics.		(14 marks)
	lustrations, describe how you can use the following activities to enics skills and concepts.	hance acquisition of
(a) Emptying and filling		(4 marks)
(b) Sorting and grouping		(4 marks)
(c) Matching and pairing		(4 marks)
(d) Differentiate between formal and informal assessment		(8 marks)
-	n with examples, the implications of Piaget's theory of cognitive do and teaching of mathematics activities.	evelopment to the (20 marks)
4. (a) Write down three methods of assessing pre-school children		(3 marks)
(b) Explai	n with examples why observation is the most widely used method	of evaluation in
Pre-se	chool learning environment	(12 marks)
(c) Explai	n the nature of mathematics for young children	(5 marks)
5. Citing the children	relevant Examples, describe ten objectives of teaching mathematic	s activities to young (20 marks)