

## **MACHAKOS UNIVERSITY**

University Examinations 2022/2023

#### SCHOOL OF EDUCATION

# DEPARTMENT OF EARLY CHILDHOOD EDUCATION COMMUNICATION AND TECHNOLOGY

### SECOND YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF EDUCATION (EARLY CHILDOOD EDUCATION)

#### ECE216: STATISTICS, TESTS AND MEASUREMENT

#### DATE:

TIME:

#### **INSTRUCTIONS**

#### **INSTRUCTIONS:** Answer Question 1 and any other TWO.

1. As educators, we watch, talk to, listen to, challenge and interact with

children all the time. It is through this process that we truly find out about

the children we work with, what they know, understand and can do.

- i. Explain <u>five ways</u> in which this approach is useful when assessing children. (10 marks)
- ii. Complete the table below.

(2 marks)

COMPETENCE LEVEL	FREQUENCY F	CUMULATIVE FREQUENCY
Below		
Expectation	28	
Approaching		
Expectation	34	
Meeting		
Expectation	46	
Exceeding		
Expectation	12	

iii. Draw a graph with competence levels on x-axis and frequency on the

y-axis.

(6 marks)

		iv.	In wh	ich class of competence does the median fall?	(2 marks)		
		v.	On the	e same graph, draw the frequency polygon.	(5 marks)		
		vi.	Draw	the cumulative frequency curve on a separate page.	(5 marks)		
2.	Expla	in and I	llustrate	the circumstances under which you			
	would	ł use ead	ch of the	e following methods of assessment for young			
	children at Preprimary Level 2:						
			(i)	Observation.	(4 marks)		
			(ii)	A Checklist.	(4 marks)		
			(iii)	An Oral Interview	(4 marks)		
			(iv)	Task completion test	(4 marks)		
			(v)	Written Test	(4 marks)		
3.	(a)	Const	ruct a te	st involving matching items and worth 5 marks. Provide			
			a marl	king scheme.	(10 marks)		
	(b)	Expla	in how :	you would develop the criteria for classifying a learner a	s:		
		Below and E of the	v Expect xceedin learning	tation; Approaching Expectation; Meeting Expectation; g Expectation, with reference to a named activity in one g areas (Mathematical Activity, Language Activity or			
		Envir	onmenta	ll Activity).	(10 marks)		
4.	Expla	in <u>fi</u> ve a	aspects a	a teacher would consider in assessing each of the followi	ng:		
		(i)	Langu	age Development.	(10 marks)		
		(ii)	Chara	cter Participation.	(10 marks)		
5.	Test s	cores h	ave the f	following distribution:			
	3,3,3,	6,4,4,9,	3,2,3,6,5	5,9,4,2,12,14,14,16,19,22,25,27,30,32,36,35,37,41,45,45	,56,4		
		7,48,4	18,50,54	,57,58,60.			
		(a) <b>C</b>	Complet	e the frequency table below:	(8 marks)		
Exa	minatio	n Irregu	larity is	punishable by expulsion	Page 2 of 3		

CLASS	MID-	TALLY	FREQUENCY	FREQUENCY
INTERVAL	POINT			Х
	Х		f	MID-POINT
				f x X
0-10	5			
10.20	15			
10-20	15			
20-30	25			
30-40	35			
40-50	45			
10 20	10			
50-60	55			
		IUIALS		
			1	

(b) Using a suitable scale, draw the graph of frequency versus class interval.

(3 marks)

(c)	Calculate the mean for the data in this table.	(3 marks)
(d)	Calculate the position and value of the median.	(2 marks)
(e)	Draw the cumulative frequency curve.	(4 marks)