



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF EDUCATION

DEPARTMENT OF COMMUNICATION TECHNOLOGY

SECOND SEMESTER EXAMINATION FOR DEGREE OF MASTER OF EDUCATION

ECT 848:METHODS OF TEACHING/LEARNING

Date: SCHOOL BASED

Time:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) What is teaching tactic. (2 marks)
 - b) Highlight key characteristics of effective teaching. (6 marks)
 - c) Using relevant examples, distinguish between expository and heuristic strategy of learning. (12 marks)
2.
 - a) Pinpoint the usefulness of the lecture method to a teacher. (6 marks)
 - b) Discuss the advantages of the independent study method of learning. (14 marks)
3.
 - a) Identify the importance of the lecture method of teaching. (8 marks)
 - b) Examine factors considered when choosing a teaching method. (12 marks)
4. Evaluate the effectiveness of using Questioning – Answering strategy in teaching. (20 marks)
5.
 - a) Discuss advantages of CAL to learners. (10 marks)
 - b) Differentiate between teaching method and teaching strategy. (10 marks)

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DEPARTMENT OF COMMUNICATION TECHNOLOGY

SECOND SEMESTER EXAMINATION FOR DEGREE OF MASTER OF EDUCATION

ECT 859: AUDIO VISUAL INSTRUCTION

Date: SCHOOL BASED

Time:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) Differentiate between audio and visual media. (4 marks)
 - b) Pinpoint factors that influence use of instructional media. (8 marks)
 - c) Justify the importance of textbooks to students. (8 marks)
2.
 - a) Discuss benefits of films in classroom instruction. (10 marks)
 - b) Describe the importance of Pictures as medium for teaching. (10 marks)
3.
 - a) Chalkboard is a common medium of instruction. Describe how a teacher can use the chalkboard effectively. (10 marks)
 - b) Examine advantages of using charts in teaching/learning. (10 marks)
4.
 - a) Pinpoint criteria used by teachers when selecting instructional media. (10 marks)
 - b) Explain how a teacher will take care and maintain instructional resources. (10 marks)
5.
 - a) Discuss the importance of using instructional media. (8 marks)
 - b) Highlight limitations faced by teachers when using radio broadcast in teaching/learning. (12 marks)

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DEPARTMENT OF COMMUNICATION TECHNOLOGY

FIRST SEMESTER EXAMINATION FOR DEGREE OF MASTER OF EDUCATION

AKS 817: ADVANCED ORAL LITERATURE IN KISWAHILI

Date: SCHOOL BASED

Time:

MAAGIZO:

*Jibu swali la **KWANZA** na mengine mawili.*

1. a) Eleza maana ya vipera vifuatavyo vya Fasihi Simulizi. (alama 5)
 - i) miviga
 - ii) visa-asili
 - iii) visa-viini
 - iv) mighani
 - v) misimu
- b) Fafanua sifa tano za mtambaji wa Fasihi Simulizi. (alama 10)
- c) Changanua nadharia tatu zinazoelezea chimbuko la Fasihi Simulizi. (alama 15)
2. Huku ukitoa mifano mwafaka tathmini aina mbalimbali za ngano zinazopatikana katika jamii za Afrika Mashariki. (alama 15)
3. a) Tathmini tofauti zilizopo kati ya Fasihi Andishi na Fasihi Simulizi. (alama 8)
- b) Fafanua majukumu ya Fasihi Simulizi katika jamii. (alama 7)
4. a) Eleza ufaafu wa nyimbo katika jamii. (alama 5)
- b) Tambua aina kumi za nyimbo huku. (alama 10)
5. a) Hadithi ni muhimu katika Fasihi Simulizi. Fafanua. (alama 5)
- b) Tambua mambo matano yanayozingatiwa katika uhakiki wa hadithi simulizi. (alama 10)

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DEPARTMENT OF COMMUNICATION TECHNOLOGY

FIRST SEMESTER EXAMINATION FOR DEGREE OF MASTER OF EDUCATION

ECE 814 / ECC 802: EDUCATIONAL STATISTICS

Date: SCHOOLBASED

Time:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE

- a) Briefly explain the meaning of the following:-
- i. Sum of squares (1 mark)
 - ii. Normal distribution curve (1 mark)
 - iii. Independent variables (1 mark)
- b) Make a distinction between:
- i. Kurtosis and skewness of a distribution (2 marks)
 - ii. Descriptive and inferential statistics (2 marks)
 - iii. Type 1 and Type 2 errors (2 marks)
- c) Describe the relationship between mode, mean and median in the distribution moderately skewed to the left. (2 marks)
- d) In an English and Mathematics test, the standard deviation was 5 and 12 respectively. English had a mean score of 82, while the mean score for Mathematics was 49. If a

student made a score of 76 on an English test and 43 on a Mathematics test, on which test did the students perform better? (4 marks)

e) For the data given below,

Subject	X_i
1.	6
2.	1
3.	4
4.	7
5.	9
6.	3
7.	8
8.	6

Calculate the standard deviation (3 marks)

f) If a researcher calculated value is smaller than the critical value, what will the researcher conclude about the null hypothesis? (2 marks)

QUESTION TWO

It is commonly recognized that a “poor environment (for example, poverty, low education, levels of parents) and the (presence of Stressors” for example divorce of parents, abuse) contribute to lower test score. Recent research indicates that a child’s test score are related to the number of such “risk factors” in the child’s background, regardless of which specific factors are present. The table indicates the number of risk factors and the test scores of 12 children.

Child	Risk Factor (x)	Test Score (y)
1.	3	112
2.	6	82
3.	0	105
4.	5	102
5.	1	115
6.	1	101
7.	5	94
8.	4	89
9.	3	98
10.	3	109
11.	4	91
12.	2	107

- a) Compute correlation coefficient between the test score and the number of risk factors (15 marks)
- b) What statistical decision can be made at 0.05 level of significance (5 marks)

QUESTION THREE

The data below shows the number of acacia trees and moisture content of the soil at Katumani research station

Number of Acacia Trees X	Moisture Content Y
47	21
35	18
28	9
27	25
44	27
66	38
60	33
75	48
73	49
45	32

- a) Find the regression formula for the data (4 marks)
- b) Draw the regression line using results of the regression formula (10 marks)
- c) Which moisture content do you predict for a plot having
- 25 trees (3 marks)
 - 80 tress (3 marks)

QUESTION FOUR

Common measures of hyperactivity in children include both teachers and parents' evaluation of the degree of hyperactivity of children. Compute the correlation between parents and teachers rankings of the following ten children in terms of hyperactivity.

Child	Teachers Ranking	Parent Ranking
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1.	6	5
2.	5	8
3.	9	6
4.	3	1
5.	1	4
6.	8	7
7.	2	3
8.	4	2
9.	7	9
10.	10	10

- What is the appropriate correlational technique, and why? (5 marks)
- Calculate the correlation between the two sets of rankings. (10 marks)
- What statistical decision can be made at 0.05 level of significance? (5 marks)

QUESTION FIVE

A teacher wants to determine whether students' choice of courses is dependent on socio-economic background. A random sample of 200 Form Four students is surveyed and the results are presented in the table below.

Subject Choice	Farming	Working Class	Middle Class	Professional
Arts	13	15	2	2
Science	12	13	4	2
Law	4	4	15	18
Medicine	5	4	15	16
Education	6	10	4	6
Engineering	5	3	8	8

Test to see if there is sufficient evidence to show that choice of course is dependent on socio-economic background. (20 marks)



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FIRST SEMESTER EXAMINATION FOR DEGREE OF MASTER OF EDUCATION

ECT 802: NEW TRENDS IN EDUCATION

Date: SCHOOL BASED

Time:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - a) Education is a dynamic and continuous process in which new trends should be incorporated in order to provide learners with appropriate knowledge and skills for everyday life. Discuss five areas of change and development in the Kenyan education system in support to this statement. (10 marks)
 - b) Discuss benefits of group learning. (5 marks)
 - c) Explain limitations of Flanders Interaction Analysis Systems (5 marks)
 - d) Discuss use of the following concepts in teaching and learning
 - i. Achievement Motivation (5 marks)
 - ii. Programmed Learning (5 marks)
2. Research indicates that micro-teaching is an important training technique used in improving teaching skills and competencies.
 - a) Give three reasons in support of this statement (3 marks)
 - b) Describe how micro-teaching is used to improve teaching skills. (12 marks)

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3.
 - a) Define the term instructional strategy and describe various teaching strategies used by teachers. (5 marks)
 - b) Discuss areas in which a teacher is required to make careful decisions when developing instructional requirements for learners. (4 marks)
 - c) Describe 3 three key shifts in the 21st Century that form the basis of re-designing the current learning environments. (6 marks)
4.
 - a) Active learning is a model of instruction that focuses the responsibility of learning on learners. Explain five principles of active learning as suggested by Barnes (1989). (10 marks)
 - b) Describe ways in which group work can be designed and managed in order to achieve desired objectives in the classroom learning. (5 marks)
5. Interaction analysis systems are useful in studying patterns of teaching and learning.
 - a) Describe basic theoretical assumptions of to the idea of interaction analysis (5 marks)
 - b) Describe the categories of FlandersInteraction Analysis System. (10 marks)



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FIRST SEMESTER EXAMINATION FOR DEGREE OF MASTER OF EDUCATION

ECT816: LANGUAGE USE IN EDUCATION

Date: SCHOOL BASED

Time:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1. a) Explain your understanding of the following theories of language acquisition: the Imitation Theory, the Behaviorist Theory, and the Innatist Theory. (15 marks)
 b) Describe FIVE approaches or methods that are most appropriate to teach various aspects of language in the Kenyan school setting. (15 marks)
2. Discuss the process of first and second language acquisition. What are the similarities and differences? (15 marks)
3. With the increased use of media and other modern forms of communication, language teaching is increasingly becoming a complex issue in our schools. Discuss the possible merits or demerits of social media on language teaching in contemporary Kenya. (15 marks)
4. Evaluate the five different approaches that you can use to address diversity and multiculturalism in the curriculum, and state goals and strategies to promote multiculturalism in a public school. (15 marks)
5. Examine Krashen's Monitor Model and its five interrelated hypotheses. What does this model mean for curriculum, methods, and assessment for second language teaching? (15 marks)

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FIRST SEMESTER EXAMINATION FOR DEGREE OF DOCTOR OF PHILOSOPHY

IN EDUCATION

ECT 803: DESIGN AND PRODUCTION OF EDUCATIONAL MEDIA

Date: SCHOOLBASED

Time:

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1.
 - i) Briefly explain the Nature, scope and functions of Educational Media on Teaching and Learning Resources. (5 marks)
 - ii) What are the major roles played research Theories on Design and Production of Educational Media? (5 marks)
 - iii) Differentiate between Hardware and Software devices. (5 marks)
 - iv) Define the term Instructional Technology. (5 marks)
2. Critically assess the role of Mass Media in Formal and Informal Education. (20 marks)
3. Critically examine the role and functions of an Educational Media Centre. (20 marks)
4. Explain in details the role played by the librarian in an Educational Media Centre in the selection, utilization and management of Print and non-print materials. (20 marks)
5.
 - i) What are the characteristics of media applications? (5 marks)
 - ii) What is an instructional Design? (5 marks)
 - iii) Critically examine the major functions of Educational Media on teaching and learning resources. (10 marks)

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