

MACHAKOS UNIVERSITY

University Examinations for 2022/2023 Academic Year

SCHOOL OF AGRICULTURE, ENVIRONMENT AND HEALTH SCIENCES DEPARTMENT OF AGRICULTURAL SCIENCES FOURTH YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION AND EXTENSION) AEE 433: EXTENSION AND RURAL DEVELOPMENT

DATE:		TIME:		
INSTRUCTIONS: Answer Question ONE (Compulsory) and Any other Two Questions. QUESTION ONE (COMPULSORY 30 MARKS)				
a)	Disti	inguish between the following terms/concepts as they apply to agricultur	al extension	
	programme development: (5		(5 marks)	
	i)	Extension goal and extension objective		
	ii)	Extension programme and extension work plan		
	iii)	Normative needs and expressed needs		
	iv)	Interactive participation and self-mobilization		
	v)	Primary data sources and secondary data sources		
b)	Expl	Explain five techniques that can be used to collect data for agricultural extension		
	prog	ramme planning.	(5 marks)	
c)	Tabu	Tabulate five differences between monitoring and evaluation in agricultural extension		
	practice.		(5 marks)	
d)	Explain five 21st century competencies that extension practitioners need to posses		ossess.	
			(5 marks)	
e)	Summarize in five points the benefits of formal networks in extension programme			
	impl	ementation.	(5 marks)	

f) Logically present the steps one can follow to come up with a sound evaluation plan in agricultural extension. (5 marks)

QUESTION TWO_(20 MARKS)

- a) With a specific example in each case, explain five opportunities that county governments in Kenya have to develop responsive agricultural extension programmes. (10 marks)
- b) Discuss five measures that the Ministry of Agriculture and Livestock Development in Kenya can use to meet smallholder farmers information and knowledge needs.(10 marks)

QUESTION THREE (20 MARKS)

- a) Discuss five benefits of a comprehensive needs assessment exercise in relation to agricultural extension programme development. (10 marks)
- b) Explain five characteristics of a logic model that make it appropriate for use in agricultural extension programme development. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the phases that an agricultural development project takes. (10 marks)
- b) Explain five good practices in writing an agricultural development project plan.

(10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss five benefits of evaluation of agricultural extension programmes. (10 marks)
- b) Discuss four main categories of stakeholders who can be involved in formative evaluation of an agricultural development intervention to commercialize smallholder farms in a rural community. (10 marks)