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AGEC 422

CHUKA

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE IN BACHELOR OF

AGRICULTURAL ECONOMICS, AGRIBUSINESS MANAGEMENT AND BACHELOR **OF SCIENCE IN ANIMAL HEALTH**

AGEC 422: AGRICULTURAL PROJECT ANALYSIS

STREAMS: AGEC Y4S2, AGBM , ANSI

DAY/DATE: MONDAY 4/12/2017

INSTRUCTIONS:

Answer question one and any other three •

- 1. Explain intangible costs and benefits in a project. [4marks] (ii) Financial prices of tangible items can be adjusted to reflect economic values in three successful steps. Explain the four stages of project cycle. [6marks] (iii) A project has a clear starting and finishing date in which specific objectives may be achieved. Explain how the achievements can be measured. [10marks] (iv) Explain the reason why project may fail. [5marks] 2. (i) Mr. Mutwiri borrowed some money from a bank to start a dairy project . However due to technicalities involved in financing he was to receive ksh 1,000,000 at the end of each year for a period of 8 (eight) years. The money was delayed for initial period of six month which did not affect the term as agreed. Calculate the present worth of the project if the present worth factor is 12.5% p.a and therefore draw a conclusion. [5marks] (ii) Discuss the project management process group. [10marks]
- 3. (i) Consider the following examples in which a farmer applies the DAP fertilizer to his farm.



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TIME: 2 HOURS

8.30 A.M - 10.30 A.M

CROP RESPONSE TO DAP FERTILIZER IN 2015 - 16									
	WHEAT			MAIZE					
DAP IN	YIELD IN	VALUE/	MVP	YIELD IN	VALUE	MVP			
KGS/ HA	KGS/ HA	KSH		KGS/HA	KSH				
0	2070	8000		1800	9000				
6	2120			2000					
12	2200			2200					
18	2228			2400					
24	2300			2500					
30	2345			2700					
36	2400			2750					
42	2510			2800					
48	2580			3000					
54	2610			3100					
60	2712			3150					
66	2800			3200					
72	2100			3220					

(a) Find the value of wheat and value of maize.	[4marks]				
(b) Find the marginal value product.	[5marks]				
(c) Suppose the farmer had only 2 hectares one planted with maize and another with					
wheat and sufficient resources to purchase only 66 kgs of DAP fertilizers. Suppose he					
shifted 6 kgs to maize leaving the rest for wheat production. Explain this scenario					
giving the opportunity cost in this case.	[6marks]				
(i) Define Gantt chart.	[2marks]				

(ii) As a financial analyst in agricultural project, explain how you would treat family labour. [3marks]

4.

(iii) You have been appointed as project manager for chaka farm in chuka, explain the difficulties you may encounter when determining economic values for non-traded items. [10marks]

5. (i) Use the 'discounting incremental net benefit' to fill the table below. [10marks]

Year	Capital items	Operation &	Production cost	Gross costs	Incremental production	Incremental net benefit	Discount factor	Present worth
		maintenance			(gross	or cash flow	10%	10% (
		cost			benefit) ksh	(ksh)		ksh)
1	2000	0	0		0			
2	5000	0	0		0			
3	8000	0	0		0			
4	7100	0	0		0			
5	4000	0	0		0			
6	0	580	560		3000			
7	0	580	1200		4000			
8	0	580	1800		1000			
9	0	580	1880		11000			
10	0	580	2300		13000			

(ii) Explain the role of the project manager and project owner. [5marks]
