

"Investing in Africa's future" COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES (CHANS)

AEC 308: PROJECT APPRAISAL

END OF FIRST SEMESTER FINAL EXAMINATIONS

NOVEMBER/DECEMBER 2019

LECTURER: MRS MUCHANYUKA

DURATION: 3 HRS

INSTRUCTIONS

Answer any FOUR questions

All questions carry equal marks (25).

DO NOT repeat material.

Write legibly.

Question 1

Assume that after graduation you decided that you wanted to start a pig project, and that the following information applies:

- You need a loan of \$70 000 from the bank at the going interest rate of 12%per annum
- You are going to put up structures in the base year (Year 0) at the cost of \$20 000
- In the first year of the projects life (Year 1) you are going to buy equipment and weaners with the rest of the loan
- Sales of live animals to Colcom start in year 1 and the project lasts for 6 years before it winds up or expires
- Price of the live weight is \$1.50/kg throughout the years
- Production and operation costs and the level of production are as follows:

Costs	Years					
	Year1	Year2	Year3	Year4	Year5	Year6
Production costs	2 000	3 000	3 200	2 800	2 600	1 800
Operation costs	1 000	1 500	2 400	2 800	2 000	1 500
Production output(kgs of	2 400	28 400	22 000	2 000	1 400	1 000
live weight)						

- a. Using the Benefit Cost Analysis (BCA) find out if you should undertake the project. Give reasons for your answer and show all calculations (12)
- b. Discuss critically what the production and operation costs would consist of in this project (5)
- c. If due to scarcity of inputs like feeds and piglets you put the loan in your account at the bank instead of establishing the project, at interest rate 10% per annum for 6 years. Could this be a better option? Explain why. (8)

Question 2

GG Holdings is planning to undertake a broiler project requiring initial investment of \$500 000 and is expected to generate \$72 250 in Year 1, \$180 000 in Year 2, \$140 000 in Year 3, \$300 250 in Year 4 and \$400 000 in Year 5.

Explain

- a) What the Payback period method of financial analysis of a project is (5)
- b) Its strengths and weaknesses (8)

c) Calculate the payback period for GG Holdings and explain whether it is advisable to invest in the broiler project or not given an alternative dairy project to invest the \$500 000 with a payback period of 4 years 1 month. (12)

Question 3

If you were employed by a commercial farmer who wanted to start vegetable production on his new land and you were asked to give him advice on whether he should establish such a project or not,

- a) Explain what steps you would take before advising the farmer to implement the project? (15)
- b) If you found the project feasible, what indicators would you consider in the technical analysis of this project? (Use any vegetable of your choice as an example) (10)

Question 4

- a) Explain clearly how you can plan and design an agricultural project of your choice (20)
- b) What does the term Sunk Cost mean in economic terms? (3)
- c) With an example, show your understanding of a tangible benefit (2)

Question 5

- a) Identify a problem in the economy of your country that needs to be resolved as a priority (5)
- b) Identify two projects that could solve the problem and explain how and why they can solve the problem (20)

Question 6

- a) Why are projects designed and implemented? (12)
- b) Explain why some projects fail (8)
- c) Define intangible benefits with examples (5)