



*"Investing in Africa's future"*

**COLLEGE OF HEALTH AGRICULTURE AND NATURAL SCIENCES**

**NAEC 408: PROJECT APPRAISAL AND EVALUATION**

**END OF FIRST SEMESTER EXAMINATION**

**NOVEMBER 2025**

**LECTURER: PROF. J. MADZIMURE**

**DURATION: 3 HOURS**

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**INSTRUCTIONS**

Answer all questions in Section A and any **three** from Section B

Section A carries **40 marks** and each question in section B carries **20 marks**.

**Section A (Answer all questions, 40 marks)**

**Question 1**

- a) Highlight the purpose of Net Present Value (NPV) in project appraisal. [5]
- b) Describe the gender analysis matrix (GAM) as used in project appraisal and evaluation. [5]
- c) Suppose Africa University Farm invests \$50,000 in a new horticulture project and expects to receive \$18,000 per year. Calculate the discounted payback period for the project assuming an interest rate of 10%. [10]
- d) Describe the Gant Chart as a project management tool for strategy and planning. [5]
- e) Highlight the importance of the following aspects in project management:
  - i. Application of artificial intelligence; [5]
  - ii. Risk analysis; and [5]
  - iii. Technical appraisal. [5]

**Section B (Answer any three (3) questions, 60 marks)**

**Question 2**

Analyse the key segments of a project life cycle. [20]

**Question 3**

Discuss the importance of the Business Model Canvas (BMC) for the dairy start-up project. [20]

**Question 4**

Discuss Porter's five (5) forces that govern competition in the agricultural industry. [20]

**Question 5**

Develop an environmental management plan (EMP) that a fertiliser manufacturing company can implement during production. [20]

**END OF QUESTION PAPER!!!**