



**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)  
SCHOOL OF AGRICULTURE, VETERINARY SCIENCES AND  
TECHNOLOGY (SAVET)**

**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS  
2023/2024 ACADEMIC YEAR**

**MAIN EXAMS  
OF  
BACHELOR OF (SAE/SAM)**

**ODEL**

**COURSE CODE: AEX 411**

**COURSE TITLE: PROJECT PLANNING; EVALUATION AND  
MANAGEMENT**

**DATE: 17/4/2024**

**TIME: 12-2 PM**

---

**INSTRUCTIONS TO CANDIDATES**

This paper is divided into two sections, **A and B**. Answer ALL Questions in SECTION A and any Two in SECTION B

MMUST observes ZERO tolerance to examination cheating

## **SECTION A**

1. a) Define the meaning of Project management as you state why project management is essential (5 Marks)
  
- b) As a project manager for a multi-family housing construction project, you have been requested to present a project document to the Board of management on how you intend to proceed with the project. Discuss the following;
  - Critical phases of the project (10marks)
  - Three dimensions that will affect the project performance (5marks)
  
- c) The executive steering committee of your organization is in the process of selecting projects for the next fiscal year. During that meeting, you are called in to explain to the committee various approaches to selecting projects based on financial viability. Discuss the five methods (10 marks).

## **SECTION B**

2. You are assisting the PMO director in project selection. The executive steering committee has identified four possible projects, but can only do one with the remaining funds in this fiscal year. Project A has an internal rate of return (IRR) of 21% and an NPV of \$200,000. Project B has an IRR of 20% and an NPV of \$180,000. Project C has an IRR of 7% and an NPV of \$180,000. Project D has an IRR of 13% and an NPV of \$110,000. Based on this information which project would you recommend? What is the opportunity cost? (20 marks)
  
3. Discuss various Project management techniques suitable for a sound project administration and coordination (20 Marks)
  
4. Discuss how Networks are used in project management as you define Steps and rules for Network Analysis( 20 marks)