



UNIVERSITY OF SWAZILAND

Department of Agricultural Economics & Management

RE-SIT/SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME: BSc. in Agric. Economics and Agribusiness Management Year 4
BSc. in Agronomy Year 4
BSc. in Agricultural Education Year 4**

COURSE CODE: AEM 404/405

TITLE OF PAPER: PROJECT PLANNING & MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

- INSTRUCTION:**
- 1. ANSWER ALL QUESTIONS**
 - 2. DO NOT WRITE ON THIS QUESTION PAPER**
 - 3. ALL ANSWERS SHOULD BE WRITTEN IN THE BOOKLET PROVIDED**

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION ONE

a). Below are multiple choice questions related to project initiation and management, please pick the most appropriate answer. Each question carries 2 Marks.

(10 Marks)

1.1. The most appropriate project management definition is?

- A. The application of knowledge, skills, tools and techniques to activities of the project for achievement the project objectives
- B. Determination of the main objective and forming a clear understanding about the necessity and suitability of the project
- C. A management environment that is created for the purpose of delivering one or more business products according to a specified business case
- D. The planning, directing, coordinating and controlling of all project resources from inception to completion to achieve project objectives

1.2. The key parameters used in project management include

- A. Cost, time and resources
- B. Quality, resources and costs
- C. Time, quality and risks
- D. Quality, time and costs

1.3. Which one of the following is not considered in resource management?

- A. Identifying resources
- B. Influencing resources
- C. Assigning resources to activities
- D. none of the above

1.4. There are four main sets of structures that are considered in relation to project management:

- A. Knowledge areas, milestones, activity, process groups
- B. Knowledge areas, planning process, execution process, closing processes
- C. Knowledge areas, Artefacts, Activities, Process groups
- D. Artefacts, Activities, knowledge areas, risk analysis

1.5. Which of the project management structures can be described by this statement “all activities are initiated, planned, executed, controlled and closed?”

- A. Process groups
- B. Activities and milestones
- C. Artefacts and project material
- D. All the above

b) Project management artefacts are documents that regulate the project execution. Based on your knowledge, list these important project management artefacts

(10 Marks)

c) What are the key characteristics of the project?

(5 Marks)

(TOTAL MARKS 25)

QUESTION TWO

a) The following multiple choice questions are related to project planning, appraisal and evaluation, please pick the most appropriate answer. Each question carries 2 marks.

(10 Marks)

2.1. Which of the following should be taken into account when planning a project?

- A. All options below
- B. Political environment
- C. Operational environment
- D. Social environment

2.2. The planning and scheduling techniques include the follow, excluding

- A. None of the options below
- B. Gantt or time-line charts
- C. Program Evaluation & Review Technique
- D. Critical path management

2.3. Which one of the following statements best describes the use of an issue log?

- A. A tool to ensure that the issue management process is adhered to.
- B. A tool to ensure that a process is in place for capturing all issues.
- C. A summary of all possible alternative resolutions of an issue.
- D. A summary of all the project issues, their analysis and status.

2.4. Which of the following investment rules does not use the time value of the money concept?

- A. Internal rate of return
- B. The payback period
- C. Net present value
- D. All of the options use the time value concept

2.5. Which of these statements is an advantage of the payback period method of project appraisal?

- A. Decision is dependent on the subjectively determined “maximum payback period”
- B. Failure to recognize cash flows after the payback period
- C. Viable measure of risk exposure
- D. Fails to account for time value of money

b) Sibandze Farms Ltd. is considering investing in a new project. The project will need an initial investment of E1, 200,000 and will generate E600, 000 (after-tax) cash flows for three years. Calculate the NPV for the project if the cost of capital is 15%.

(7 Marks)

c) A project has an NPV of E28,250 when a discount rate of 10% is used and the same project has an NPV of (E23,150) when a discount rate of 20% is used, the actual internal rate of return of the project is:

(8 Marks)

(TOTAL MARKS 25)

QUESTION THREE

a) Students of Agro-food related courses completed their degree program at University of Swaziland and decided to start-up a project of two years to generate incomes in the process of waiting to access jobs in the public and private sector. These students plan to plant crops for two seasons before ending the project. The farm to be established is high-tech irrigated upland rice scheme. To accomplish the project, the team has to agree on the location and type of land within 2 weeks, obtain the land within 4 weeks, select the needed upland rice variety, inputs & machinery within 2 weeks, obtain the needed upland rice variety, inputs & machinery within 5 weeks, develop the farm layout in 1 week, Organise the available resources including ploughing, establishment of the irrigation facility, planting and other activities in 4 weeks but this activity is achieved after obtaining land, and seedlings, inputs & machinery. Mid evaluation of the project will take roughly 4 weeks, the confirmation of the establishment of high-tech upland rice will take 1 week, and final report writing will take 2 weeks. The project is expected to take an early establishment of 16 weeks or latest 17 weeks. Using the provided information, generate a Work Breakdown Structure, and prepare a Gantt chart of this project.

(25 Marks)**QUESTION THREE**

a) Mr. Shongwe wants to lease a piece of Farm land for E20,000 that is expected to increase yearly profits by E11,000 for the next two years. If the rate of inflation was 8%, estimate the cost benefit ratio of this investment.

(5 Marks)

b) With Aid of a diagram identify the different components of A logical Framework

(10 marks)

c) The table below lists the cumulative values of upland rice Project, a 6 month project, with values to the end of month 10. From the table provided below what is the Cost Performance Index (CPI), Schedule Performance Index (SPI)?

Tabulated summary for mango production Project

Month	BCWS	BCWP	ACWP	CPI	SPI
1	50	50	78		
2	150	80	156		
3	260	200	234		
4	370	300	357		
5	490	420	429		

(10 Marks)

*****GOOD LUCK *****