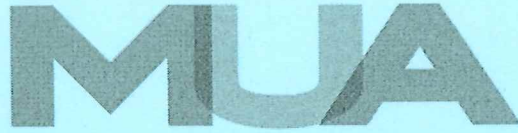


The
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UNDERGRADUATE UNIVERSITY EXAMINATIONS
SCHOOL OF MANAGEMENT AND LEADERSHIP
DEGREE OF BACHELOR OF ARTS IN DEVELOPMENT STUDIES

BDS 306/PMT 300: PROJECT PLANNING, DESIGN AND IMPLEMENTATION

DATE: 6TH DECEMBER 2024

DURATION: 2 HOURS

MAXIMUM MARKS: 70

INSTRUCTIONS:

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **THREE** questions.
6. Question **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.

QUESTION ONE

Read the case study below carefully and answer the questions that follow:

THE OLKARIA GEOTHERMAL POWER PLANT

The Olkaria Geothermal Power Plant is located in the Great Rift Valley of Kenya, near Lake Naivasha. It is one of the largest geothermal power projects in Africa and plays a significant role in Kenya's energy sector. Geothermal energy, derived from the Earth's internal heat, is a clean and sustainable source of power that reduces reliance on fossil fuels. The plant was commissioned the following objectives; to increase the generation of renewable energy in Kenya. To reduce the country's dependence on hydroelectric power which is susceptible to drought conditions. To provide a stable and reliable power supply to support economic growth. Its financial aspects include receiving funds from various sources.

The project has received funding from various international donors and financial institutions, including the World Bank, Japan International Cooperation Agency (JICA), and the European Investment Bank (EIB). Its budget has had a total investment that has exceeded USD 1 billion across different phases. Its revenue Model: Electricity generated is sold to Kenya Power, the national electricity distributor, under power purchase agreements (PPAs). With key achievements ranging from renewable energy where geothermal energy accounting for over 40% of the country's electricity generation; an economic impact where the plant has bolstered local and national economies by providing reliable power, attracting investment, and creating jobs. Finally it has had environmental benefits where it has helped reduce greenhouse gas emissions by displacing fossil fuel-based power generation.

Despite the achievements, challenges have not ceased from affecting the mighty power plant. These include; mitigating the impact on the local environment and wildlife, particularly in Hell's Gate National Park; addressing concerns of local communities, including displacement and ensuring access to benefits like employment and social infrastructure and managing the technical complexity of geothermal energy extraction and maintaining plant efficiency. The Olkaria Geothermal Power Plant is a landmark

project in Kenya's energy sector, demonstrating the potential of geothermal energy in providing sustainable and reliable power. Through strategic planning, international collaboration, and a commitment to environmental and social responsibility, the Olkaria project has achieved significant milestones and continues to drive Kenya towards a greener and more prosperous future.

Required:

- a) As a project coordinator, assess five financial controls to be used in project planning and implementation for the project you have described above. (10 MARKS)
- b) Outline five merits of budgetary control in development projects (5 MARKS)
- c) Discuss any five sources of project finance. (10 MARKS)

QUESTION TWO

- a) Describe the steps you would follow to plan a successful project (9 MARKS)
- b) Using an example, demonstrate three areas of concern you will consider as you pick a stakeholder. (6 MARKS)

QUESTION THREE

- a) Describe how you will use the gender analysis matrix as a tool in your project planning (6 MARKS)
- b) Design a project proposal using the components learned in this course of project proposal writing (9 MARKS)

QUESTION FOUR

- a) Assess the logical framework approach and illustrate how it impacts your project planning, design and implementation (10 MARKS)

- b) Discuss the importance of logical framework approach in project planning process. (5 MARKS)

QUESTION FIVE

- a) Develop short notes on the following terms as used in project management:
- i. Impact (2 MARKS)
 - ii. Sustainability (3 MARKS)
- b) Explain five characteristics of the Program Evaluation Review Technique. (10 MARKS)

QUESTION SIX

- a) Describe how project managers can successfully manage the communications during the project implementation stage. (9 MARKS)
- b) Compare and contrast characteristics of a program and a project. (6 MARKS)