



"Investing in Africa's Future"

COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE

MMS409: OPERATIONS RESEARCH

END OF SEMESTER TERM PAPER

APRIL/MAY 2020

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INSTRUCTIONS

Answer **One** question.

The marks allocated to **each** question are shown at the end of the question.

Show all your workings.

Credit will be given for logical, systematic and neat presentations.

1. Discuss the main features of inventory management. How can these features be used to improve the productivity of a company. **[100 marks]**
2. Discuss the following:
 - a) The process of Operations Research study. **[50 marks]**
 - b) The main features of Decision Analysis. **[50 marks]**
3. Attempt the following:
 - a) Discuss any five methods of finding the initial tableau for a transportation problem. **[40 marks]**
 - b) Explain the importance of Project Evaluation and Review Technique/Critical Path Analysis (PERT/CPA) in production. What are the limitations of the hybrid model? **[30 marks]**
 - c) Discuss the process of constructing a Simulation system. Explain the importance of simulation in production. **[30 marks]**

End of paper