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**UNIVERSITY EXAMINATION
ACADEMIC YEAR 2022/2023**

**SPECIAL / SUPPLEMENTARY EXAMINATION
SECOND YEAR SECOND SEMESTER EXAMINATIONS**

**FOR MASTER OF SCIENCE IN INFORMATION
TECHNOLOGY**

COURSE CODE: MIT 824

COURSE TITLE: GREEN COMPUTING

DATE: TIME: DURATION: 2 HOURS

DATE: ²⁵~~23~~/11/2022 TIME 8.00 A.M. – 11.00 P.M

INSTRUCTIONS TO CANDIDATES

ANSWER ANY THREE QUESTIONS

ALL QUESTIONS CARRY A MAXIMUM OF 20 MARKS EACH

QUESTION ONE (20 MARKS)

- (a) It has been stated the world is experiencing rapid population growth. Briefly explain any five effects of overpopulation. (10 marks)
- (b) Explain what climate change mitigation would require (10 marks)

QUESTION TWO (20 MARKS)

- (a) Explain what climate change mitigation would require (10 marks)
- (b) Green computing refers to a holistic approach to addressing the environmental impacts of ICTs. Discuss the holistic approach four paths to address the environmental impacts of ICT (10 marks)

QUESTION THREE (20 MARKS)

- (a) State the factors that would make most of the businesses implement green IT initiatives (4 marks)
- (b) In order to reduce the uncertainty surrounding green IT, ICT community needs to be better educated about green IT practices. Identify and explain the four gaps among IT professionals (8 marks)
- (c) Analyze any four advantages brought about by green computing (8 marks)

QUESTION FOUR (20 MARKS)

To comprehensively and effectively address the environmental impacts of IT, a holistic approach to issues is required.

- a) What is green wash? (2 marks)
- b) Discuss the three Rs of green Information Technology (6 marks)
- c) As the Green IT manager of Mwenyewe Sugar Company, discuss the complementary directions you will utilise to ensure the company fully realises its greening. (12 marks)

QUESTION FIVE (20 MARKS)

IT has a role to play in green environment creation.

- (a) Highlight the key effects of poor and unsustainable work practices that have led to unsustainable environments (4 marks)
- (b) Discuss an organisations Internal drivers and opportunities for greening IT (16 marks)