UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER: MAY 2016

TITLE OF PAPER:

MICROBES AS A RESOURCE

COURSE CODE:

ERM613/BIO 608

TIME ALLOWED:

THREE HOURS

INSTRUCTIONS:

1. ANSWER ANY THREE QUESTIONS

2. EACH QUESTION CARRIES THIRTY (30)

MARKS

SPECIAL REQUIREMENTS:

NONE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATORS

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QUESTION 1

Biotechnology and innovation parks are instrumental in sustainable development worldwide.

Deliberate on how you would convince a non-microbiologist that environmental microbiology is essential in these developmental ventures. (30 marks)

QUESTION 2

Discuss the role of microbes in environmental management.

(30 marks)

QUESTION 3

a) Argue for or against the significance of microbe-metals and microbe-metallic ion interactions in the improvement of environmental health. (30 marks)

QUESTION 4

Bioremediation is a sound choice in polluted environments. Discuss.

(30 marks)