COURSE CODE: B484 (M) 2018/2019

UNIVERSITY OF ESWATINI DEPARTMENT OF BIOLOGICAL SCIENCES MAIN EXAMINATION PAPER MAY 2019

TITLE OF PAPER:

DRUG METABOLISM & TOXICOLOGY

COURSE CODE:

BIO484

TIME ALLOWED:

THREE HOURS

INSTRUCTIONS:

1. ANSWER ALL FOUR (4) QUESTIONS IN THIS PAPER

2. EACH QUESTION COUNTS 25 MARKS

3. ILLUSTRATE YOUR ANSWERS WITH LARGE AND CLEARLY LABELLED DIAGRAMS WHERE APPROPRIATE

SPECIAL REQUIREMENTS:

NONE

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

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Question 1

Discuss how age and sex affects drug pharmacokinetics and pharmacodynamics. (25 marks)

Question 2

Discuss the factors that affect xenobiotic mediated gastrointestinal absorption and bioavailability. (25 marks)

Question 3

Discuss the role of Cytochrome P450 enzymes in drug metabolism.

(25 marks)

Question 4

Discuss Phase I and Phase II reactions in drug metabolism.

(25 marks)

END OF EXAMINATION PAPER