



**2<sup>nd</sup> SEM. 2005/2006**

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME : BACHELOR OF SCIENCE IN HOME  
ECONOMICS [FOOD SCIENCE AND  
TECHNOLOGY OPTION] YEAR IV**

**COURSE CODE : FST 405**

**TITLE OF PAPER : GENERAL MICROBIOLOGY**

**TIME ALLOWED : TWO (2) HOURS**

**INSTRUCTIONS : ANSWER ANY FOUR (4) QUESTIONS**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN  
GRANTED BY THE CHIEF INVIGILATOR**

**PAGE 2 OF 2****QUESTION 1**

Discuss food poisoning and toxins, give examples.

**[Total = 25 marks]**

**QUESTION 2**

a. Discuss sexual and asexual reproduction in fungi.

[12 marks]

b. Briefly describe the different types of immunity

[13 marks]

**[Total marks = 25]**

**QUESTION 3**

a. With the aid of a diagram, clearly indicate the different parts of a bacterial cell.

[10 marks]

b. Explain the spontaneous theory and how it was resolved.

[10 marks]

c. Explain the importance of microscopes in microbiology.

[5 marks]

**[Total marks = 25]**

**QUESTION 4**

a. What is meant by an infectious disease?

[5 marks]

b. What is meant by phagocytosis?

[5 marks]

c. Describe how viral particles multiply through the lytic cycle.

[15 marks]

**[Total marks = 25]**

**QUESTION 5**

Outline the life cycle of the malaria causal agent. Use of a diagram is recommended.

**[Total = 25 marks]**